Mohawk KIT: M745-1499

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : INSTANT ADHESIVE THIN LIQUID 2 OZ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Surface Insensitive Cyanoacrylate Adhesive

1.3. Details of the supplier of the safety data sheet

RPM Wood Finishes Group
3194 Hickory Blvd
Hudson, NC 28638 USA
T: 828-728-8266; F: 828-728-2409

www.RPMWFG.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to local, regional, national, and international regulations.

Precautionary phrases Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

2.3. Other hazards

This product is not identified as a PBT substance.

WARNING: Cyanoacrylate. Eye irritant. Bonds skin and eyes in seconds. This adhesive gives a virtually immediate, strong bond: apply only to surfaces to be bonded. Do not get adhesive on your skin or other parts of your body, or that of others. In case of body contact, flush with water. Seek medical attention for any eye or internal contact. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients

3.1. Substances

Full text of H-phrases: see section 16

3.2. Mixture

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
ethyl-2-cyanoacrylate	(CAS No) 7085-85-0	99.6	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Overexposure may be irritating to the respiratory system. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Do not pull bonded skin apart. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Do not remove clothing if it sticks to the skin. Contact through clothing can cause immediate polymerization, exothermic reaction and burning. Removal of clothing can remove bonded skin. Submerge with water and soak affected area. Wear a plastic (not cotton) apron for added protection. Get immediate medical advice/attention. If the lips are accidentally bonded, apply warm soapy water, encourage maximum wetting and pressure from saliva inside the mouth and peel or roll lips apart. DO NOT TRY TO PULL LIPS APART. Burn: should be treated normally after the lump of cyanoacrylate is released from the tissue.

First-aid measures after eye contact : Immediately flush with warm water for at least 15 minutes, get prompt medical attention and apply gauze patch. Cyanoacrylate will bond to eye protein and cause a lachrymatory effect which will help de-bond the adhesive. Keep eye covered until de-bonding is complete (usually with 1-4 days). Get immediate medical attention.

First-aid measures after ingestion : This route is not likely. Material will rapidly polymerise in the mouth prior to ingestion. Ensure breathing passages are not obstructed. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritation of the eye tissue. Causes skin and eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause irritation to skin. Cyanoacrylate bonds skin and eyes in seconds. In the case of large spills on the skin, superficial burns may occur. Contact through clothing can cause immediate polymerization, exothermic and burning.

Symptoms/injuries after eye contact : Causes eye irritation. Bonds eyes in seconds. Goggles or safety glasses are recommended.

Symptoms/injuries after ingestion : Ingestion unlikely. Material will rapidly polymerise in the mouth prior to ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray or fog.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : In combustion emits toxic fumes of carbon dioxide, carbon monoxide and nitrogen oxides.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use a water spray to cool exposed surfaces and to protect fire-fighters. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate the area immediately. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Use appropriate personal protection equipment (PPE). Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect spillage.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Use only non-sparking tools. Notify experts. Collect spillage. Or flood with water slowly to complete polymerization (~10:1, adhesive : water). Scrape off floor. Cured material can be disposed of as non-hazardous waste.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact of substance with water. Do no eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Observe very strict hygiene - avoid contact. Use only in a well-ventilated area. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep away from direct sunlight. Keep container tightly closed. Keep cool. Keep in fireproof place. Store in a dry place. Keep container closed when not in use.

Incompatible products : Amines. Oxidizing agents. Alkali metals. Water. Alcohols. Strong bases. Strong acids.

Incompatible products : Sources of ignition. Direct sunlight.

Storage temperature : Refrigerated storage (2°C to 8°C) is recommended for optimum shelf life.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethyl-2-cyanoacrylate (7085-85-0)		
USA ACGIH	ACGIH TWA (ppm)	0.2 ppm
USA ACGIH	ACGIH STEL (ppm)	0.2 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Avoid all unnecessary exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Full protective flameproof clothing. Respiratory protection of the dependent type. Avoid all unnecessary exposure.

Materials for protective clothing : Keep suitable chemically resistant protective clothing readily available for emergency use.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Colorless liquid.
Colour	:	Colourless.
Odour	:	Irritating. sharp.
Boiling point	:	> 300 °F
Flash point	:	> 176 °F
Self ignition temperature	:	> 450 °C
Vapour pressure	:	<= 0.5 mmHg @75°F
Specific gravity	:	1.06
Solubility	:	Reacts with water. Soluble in Acetone.
Viscosity, kinematic	:	5 cPs
Evaporation rate	:	Negligible
VOC:		<2%, <20g/L; California SCAQMD method 316 (estimated)

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Polymerises rapidly with water.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions. Polymerization may occur on exposure to conditions or materials listed below. Polymerization can be rapid.

10.4. Conditions to avoid

Direct sunlight. Heat, high temperature. Moisture, humidity.

10.5. Incompatible materials

Amines. Water. Alkalis. Oxidizing agent. Alcohols.

10.6. Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ethyl-2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value,Rabbit; Experimental value)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Negligible ecotoxicity.

12.2. Persistence and degradability

M745 – 1241, M745-1005, M745-1410	
Persistence and degradability	No data available.

ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

M745 – 1241, M745-1005, M745-1410	
Bioaccumulative potential	No bioaccumulative potential

ethyl-2-cyanoacrylate (7085-85-0)	
Bioaccumulative potential	No bioaccumulation potential

12.4. Mobility in soil

Considered very low due to rapid polymerization with water.

12.5. Other adverse effects

Other information : Negligible ecotoxicity.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	:	Remove waste in accordance with local and/or national regulations.
Sewage disposal recommendations	:	Do not discharge into drains or the environment.
Waste disposal recommendations	:	Transfer to a suitable container and arrange for collection by specialized disposal company. Or polymerize adhesive slowly with water (~10:1, adhesive : water). Hardened product can be disposed of as non-hazardous waste by licensed contractors. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	:	Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description	:	NA1993 Combustible liquid, n.o.s., 9, III
UN-No.(DOT)	:	UN3334
DOT NA no.	:	NA1993
DOT Proper Shipping Name	:	Combustible liquid, n.o.s.
Department of Transportation (DOT) Hazard Classes	:	9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
DOT Symbols	:	D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
Packing group (DOT)	:	III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	203
DOT Packaging Bulk (49 CFR 173.xxx)	:	241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
Marine pollutant	:	No

Additional information

Other information	:	No supplementary information available.

ADR

Transport document description	:	UN UN3334 aviation regulated liquid, n.o.s., 9
Class (ADR)	:	9 - Miscellaneous dangerous substances and articles

Transport by sea

Proper Shipping Name (IMDG)	:	Not regulated

Air transport

UN-No.(IATA)	:	UN3334
Proper Shipping Name (IATA)	:	aviation regulated liquid, n.o.s.
Class (IATA)	:	9 - Miscellaneous Dangerous Goods
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

M745 – 1241, M745-1005, M745-1410	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ethyl-2-cyanoacrylate (7085-85-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

M745 – 1241, M745-1005, M745-1410	
WHMIS Classification	Hazard Class B.3, D.2B

EU-Regulations

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

15.2.2. National regulations

No additional information available

15.3. US State regulations

Proposition 65 No Significant Risk Levels (NSRLs): This product contains no ingredient under Proposition 65 that is classified as a significant risk.

ethyl-2-cyanoacrylate (7085-85-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H-phrases:

H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

WARNING: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 2 Moderate Hazard
Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Nothing herein shall be considered as recommending practices or products in violation of any patent, law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. WE MAKE NO WARRANTIES REGARDING THE PRODUCTS AND DISCLAIM ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : INSTANT ADHESIVE MEDIUM/THIN LIQUID BLACK 2 OZ M745-1330

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Cyanoacrylate Adhesive

1.3. Details of the supplier of the safety data sheet

RPM Wood Finishes Group
3194 Hickory Blvd
Hudson, NC 28638 USA
T: 828-728-8266; F: 828-728-2409

www.RPMWFG.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to local, regional, national, and international regulations.

Precautionary phrases Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

2.3. Other hazards

This product is not identified as a PBT substance.

WARNING: Cyanoacrylate. Eye irritant. Bonds skin and eyes in seconds. This adhesive gives a virtually immediate, strong bond: apply only to surfaces to be bonded. Do not get adhesive on your skin or other parts of your body, or that of others. In case of body contact, flush with water. Seek medical attention for any eye or internal contact. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients

3.1. Substances

Full text of H-phrases: see section 16

3.2. Mixture

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
ethyl-2-cyanoacrylate	(CAS No) 7085-85-0	85.0	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Overexposure may be irritating to the respiratory system. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Do not pull bonded skin apart. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Contact through clothing can cause immediate polymerization, exothermic reaction and burning. Removal of clothing can remove bonded skin. Submerge with water and soak affected area. Wear a plastic (not cotton) apron for added protection. Get immediate medical advice/attention. If the lips are accidentally bonded, apply warm soapy water, encourage maximum wetting and pressure from saliva inside the mouth and peel or roll lips apart. DO NOT TRY TO PULL LIPS APART. Burn: should be treated normally after the lump of cyanoacrylate is released from the tissue.

First-aid measures after eye contact : Immediately flush with warm water for at least 15 minutes, get prompt medical attention and apply gauze patch. Cyanoacrylate will bond to eye protein and cause a lachrymatory effect which will help de-bond the adhesive. Keep eye covered until de-bonding is complete (usually with 1-4 days). Get immediate medical attention.

First-aid measures after ingestion : This route is not likely. Material will rapidly polymerise in the mouth prior to ingestion. Ensure breathing passages are not obstructed. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritation of the eye tissue. Causes skin and eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause irritation to skin. Cyanoacrylate bonds skin and eyes in seconds. In the case of large spills on the skin, superficial burns may occur.

Symptoms/injuries after eye contact : Causes eye irritation. Cyanoacrylate bonds skin and eyes in seconds.

Symptoms/injuries after ingestion : Ingestion unlikely. Material will rapidly polymerise in the mouth prior to ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray or fog.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : In combustion emits toxic fumes of carbon dioxide, carbon monoxide and nitrogen oxides.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use a water spray to cool exposed surfaces and to protect fire-fighters. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use appropriate personal protection equipment (PPE). Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect spillage.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Notify experts. Collect spillage. Or flood with water slowly to complete polymerization (~10:1, adhesive : water). Scrape off floor. Cured material can be disposed of as non-hazardous waste.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact of substance with water. Do no eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Observe very strict hygiene - avoid contact. Keep away from ignition sources.. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep away from direct sunlight. Keep container tightly closed. Keep cool. Keep in fireproof place. Store in a dry place. Keep container closed when not in use.

Incompatible products : Amines. Oxidizing agents. Alkali metals. Water. Alcohols. Strong bases. Strong acids.

Incompatible products : Sources of ignition. Direct sunlight.

Storage temperature : Refrigerated storage (2°C to 8°C) is recommended for optimum shelf life.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethyl-2-cyanoacrylate (7085-85-0)		
USA ACGIH	ACGIH TWA (ppm)	0.2 ppm
USA ACGIH	ACGIH STEL (ppm)	0.2 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Avoid all unnecessary exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Full protective flameproof clothing. Respiratory protection of the dependent type. Avoid all unnecessary exposure.

Materials for protective clothing : Keep suitable chemically resistant protective clothing readily available for emergency use.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Black liquid.
Colour : Black.
Odour : Irritating. sharp.
Boiling point : > 212 °F
Flash point : > 176 °F
Self ignition temperature : > 450 °C
Vapour pressure : < 0.2 mmHg @75°F
Specific gravity : 1.02 – 1.09
Solubility : Reacts with water. Soluble in Acetone.
Evaporation rate : Negligible
VOC : <=20 g/l [California SCAQMD method 316B]

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Polymerises rapidly with water.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions. Polymerization may occur on exposure to conditions or materials listed below. Polymerization can be rapid.

10.4. Conditions to avoid

Direct sunlight. Heat, high temperature. Moisture, humidity.

10.5. Incompatible materials

Amines. Water. Alkalis. Oxidizing agent. Alcohols.

10.6. Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ethyl-2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value,Rabbit; Experimental value)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Negligible ecotoxicity.

12.2. Persistence and degradability

M745-1330	
Persistence and degradability	No data available.

ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

M745-1330	
Bioaccumulative potential	No bioaccumulative potential

ethyl-2-cyanoacrylate (7085-85-0)	
Bioaccumulative potential	No bioaccumulative potential

12.4. Mobility in soil

Considered very low due to rapid polymerization with water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Remove waste in accordance with local and/or national regulations.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Waste disposal recommendations : Transfer to a suitable container and arrange for collection by specialized disposal company. Or polymerize adhesive slowly with water (~10:1, adhesive : water). Hardened product can be disposed of as non-hazardous waste by licensed contractors. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : NA1993 Combustible liquid, n.o.s., 9, III

UN-No.(DOT) : UN3334

DOT NA no. : NA1993

DOT Proper Shipping Name : Combustible liquid, n.o.s.

Department of Transportation (DOT) Hazard Classes : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.

Marine pollutant : No

Additional information

Environmentally hazardous : No

ADR

Transport document description : UN UN3334 aviation regulated liquid, n.o.s., 9

Class (ADR) : 9 - Miscellaneous dangerous substances and articles

Transport by sea

Proper Shipping Name (IMDG) : Not regulated

Air transport

UN-No.(IATA) : UN3334

Proper Shipping Name (IATA) : aviation regulated liquid, n.o.s.

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

M745-1330	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ethyl-2-cyanoacrylate (7085-85-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

M745-1330	
WHMIS Classification	Hazard Class B.3, D.2B

EU-Regulations

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

15.2.2. National regulations

No additional information available

15.3. US State regulations

Proposition 65 No Significant Risk Levels (NSRLs): This product contains no ingredient under Proposition 65 that is classified as a significant risk.

ethyl-2-cyanoacrylate (7085-85-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

WARNING: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 2 Moderate Hazard
Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : INSTANT ADHESIVE GEL M745-1500

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Surface Incensitive Cyanoacrylate Gel Adhesive

1.3. Details of the supplier of the safety data sheet

RPM Wood Finishes Group
3194 Hickory Blvd
Hudson, NC 28638 USA
T: 828-728-8266; F: 828-728-2409

www.RPMWFG.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H227 - Combustible liquid
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to local, regional, national, and international regulations.

Precautionary phrases Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

2.3. Other hazards

This product is not identified as a PBT substance.

WARNING: Cyanoacrylate. Eye irritant. Bonds skin and eyes in seconds. This adhesive gives a virtually immediate, strong bond: apply only to surfaces to be bonded. Do not get adhesive on your skin or other parts of your body, or that of others. In case of body contact, flush with water. Seek medical attention for any eye or internal contact. Keep out of the reach of children.

SECTION 3: Composition/information on ingredients

3.1. Substances

Full text of H-phrases: see section 16

3.2. Mixture

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
ethyl-2-cyanoacrylate	(CAS No) 7085-85-0	93.0	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Overexposure may be irritating to the respiratory system. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Do not pull bonded skin apart. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Contact through clothing can cause immediate polymerization, exothermic reaction and burning. Removal of clothing can remove bonded skin. Submerge with water and soak affected area. Wear a plastic (not cotton) apron for added protection. Get immediate medical advice/attention. If the lips are accidentally bonded, apply warm soapy water, encourage maximum wetting and pressure from saliva inside the mouth and peel or roll lips apart. DO NOT TRY TO PULL LIPS APART. Burn: should be treated normally after the lump of cyanoacrylate is released from the tissue.

First-aid measures after eye contact : Immediately flush with warm water for at least 15 minutes, get prompt medical attention and apply gauze patch. Cyanoacrylate will bond to eye protein and cause a lachrymatory effect which will help de-bond the adhesive. Keep eye covered until de-bonding is complete (usually with 1-4 days). Get immediate medical attention.

First-aid measures after ingestion : This route is not likely. Material will rapidly polymerise in the mouth prior to ingestion. Ensure breathing passages are not obstructed. Get immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritation of the eye tissue. Causes skin and eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause irritation to skin. Cyanoacrylate bonds skin and eyes in seconds. In the case of large spills on the skin, superficial burns may occur.

Symptoms/injuries after eye contact : Causes eye irritation. Cyanoacrylate bonds skin and eyes in seconds.

Symptoms/injuries after ingestion : Ingestion unlikely. Material will rapidly polymerise in the mouth prior to ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray or fog.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : In combustion emits toxic fumes of carbon dioxide, carbon monoxide and nitrogen oxides.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use a water spray to cool exposed surfaces and to protect fire-fighters. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use appropriate personal protection equipment (PPE). Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect spillage.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Notify experts. Collect spillage. Or flood with water slowly to complete polymerization (~10:1, adhesive : water). Scrape off floor. Cured material can be disposed of as non-hazardous waste.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact of substance with water. Do no eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Observe very strict hygiene - avoid contact. Keep away from ignition sources.. Use only in a well-ventilated area. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep away from direct sunlight. Keep container tightly closed. Keep cool. Keep in fireproof place. Store in a dry place. Keep container closed when not in use.

Incompatible products : Amines. Oxidizing agents. Alkali metals. Water. Alcohols. Strong bases. Strong acids.

Incompatible products : Sources of ignition. Direct sunlight.

Storage temperature : Refrigerated storage (2°C to 8°C) is recommended for optimum shelf life.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethyl-2-cyanoacrylate (7085-85-0)		
USA ACGIH	ACGIH TWA (ppm)	0.2 ppm
USA ACGIH	ACGIH STEL (ppm)	0.2 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Avoid all unnecessary exposure.

Personal protective equipment : Protective clothing. Protective goggles. Gloves. Full protective flameproof clothing. Respiratory protection of the dependent type. Avoid all unnecessary exposure.

Materials for protective clothing : Keep suitable chemically resistant protective clothing readily available for emergency use.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gel
Appearance	: Clear Colourless gel.
Colour	: Colourless.
Odour	: Irritating. sharp.
Boiling point	: > 300 °F
Flash point	: > 176 °F
Self ignition temperature	: > 450 °C
Vapour pressure	: < 0.5 mmHg @75°F
Specific gravity	: 1.1
Solubility	: Reacts with water. Soluble in Acetone.
Evaporation rate	: Negligible
Percent volatile	: 85 - 95 % weight [Test Method: Estimated]
VOC	: <=105 g/l [Test Method: tested per EPA method 24]

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Polymerises rapidly with water.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions. Polymerization may occur on exposure to conditions or materials listed below. Polymerization can be rapid.

10.4. Conditions to avoid

Direct sunlight. Heat, high temperature. Moisture, humidity.

10.5. Incompatible materials

Amines. Water. Alkalis. Oxidizing agent. Alcohols.

10.6. Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ethyl-2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value,Rabbit; Experimental value)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Negligible ecotoxicity.

12.2. Persistence and degradability

M745 -1500	
Persistence and degradability	No data available.

ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

M745 -1500	
Bioaccumulative potential	No bioaccumulative potential

ethyl-2-cyanoacrylate (7085-85-0)	
Bioaccumulative potential	No bioaccumulative potential

12.4. Mobility in soil

Considered very low due to rapid polymerization with water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Remove waste in accordance with local and/or national regulations.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Waste disposal recommendations : Transfer to a suitable container and arrange for collection by specialized disposal company. Or polymerize adhesive slowly with water (~10:1, adhesive : water). Hardened product can be disposed of as non-hazardous waste by licensed contractors. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : NA1993 Combustible liquid, n.o.s., 9, III

UN-No.(DOT) : UN3334

DOT NA no. : NA1993

DOT Proper Shipping Name : Combustible liquid, n.o.s.

Department of Transportation (DOT) Hazard Classes : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

DOT Vessel Stowage Location : A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.

Marine pollutant : No

Additional information

Environmentally hazardous : No

ADR

Transport document description : UN UN3334 aviation regulated liquid, n.o.s., 9

Class (ADR) : 9 - Miscellaneous dangerous substances and articles

Transport by sea

Proper Shipping Name (IMDG) : Not regulated

Air transport

UN-No.(IATA) : UN3334

Proper Shipping Name (IATA) : aviation regulated liquid, n.o.s.

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

M745 -1500	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ethyl-2-cyanoacrylate (7085-85-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

M745 -1500	
WHMIS Classification	Hazard Class B.3, D.2B

EU-Regulations

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H335

15.2.2. National regulations

No additional information available

15.3. US State regulations

Proposition 65 No Significant Risk Levels (NSRLs): This product contains no ingredient under Proposition 65 that is classified as a significant risk.

ethyl-2-cyanoacrylate (7085-85-0)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

WARNING: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Contact through clothing (cotton) may cause burns. Keep out of the reach of children.

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 2 Moderate Hazard
Physical : 1 Slight Hazard

SDS US (GHS HazCom 2012)
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Nothing herein shall be considered as recommending practices or products in violation of any patent, law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. WE MAKE NO WARRANTIES REGARDING THE PRODUCTS AND DISCLAIM ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : DE-BONDER 2 OZ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Debonder for Cyanoacrylate Adhesives

1.3. Details of the supplier of the safety data sheet

RPM Wood Finishes Group
3194 Hickory Blvd
Hudson, NC 28638 USA
T: 828-728-8266; F: 828-728-2409

www.RPMWFG.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225
Eye Irrit. 2A H319
STOT SE 3 H336

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P308+P313 - IF exposed or concerned: Get medical advice/attention
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to local, regional, national, and international regulations

SECTION 3: Composition/information on ingredients

Substances

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
acetone	(CAS No) 67-64-1	60.0	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Propylene Carbonate	(CAS No) 108-32-7	40.0	Eye Irrit. 2A, H319

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

First-aid measures after skin contact : Rinse skin immediately with plenty of soap and water/shower for 10 minutes or longer. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Irritation of the eye tissue.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause irritation to skin.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Gastrointestinal complaints. Convulsions. Coma.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Carbon dioxide. Dry chemical powder. Foam. Sand.

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire. Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing (dust, vapor, mist, gas). Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools.

Methods for cleaning up : Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools and equipment in clean-up procedure.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do no eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/ equipment.

Storage conditions : Store in a cool, well ventilated and fireproof area. Keep container tightly closed. Keep away from sources of ignition. Keep away from direct sunlight. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition

Incompatible products : Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

M745 – 1001, B745-1001		
USA OSHA	OSHA PEL (TWA) (ppm)	1000 Acetone
USA OSHA	OSHA PEL (STEL) (ppm)	1000 Acetone
USA OSHA	OSHA PEL (Ceiling) (ppm)	750 ppm Acetone

acetone (67-64-1)		
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Personal protective equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Avoid all unnecessary exposure.

Materials for protective clothing : Wear fire/flame resistant/retardant clothing.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Colorless to pale yellow liquid.

Colour : Colourless to light yellow.

Odour : Ketones.

Boiling point : 133 – 242°F

Relative density of saturated gas/air mixture : 2 – 3.52

Flash point : > - 4°F

Self ignition temperature : ~ 465 °C

Specific Gravity : 0.87- 0.95

Vapor Density : 2.0 – 3.52

Solubility : In water, material is partially soluble.
Water: 40 - 80 %

Explosive limits : 1.8 - 12.8 vol %

9.2. Other information

VOC content : 40% - 80%

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Extremely flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Will not occur. Stable under normal conditions.

10.4. Conditions to avoid

Avoid high temperatures, direct sunlight, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge.

10.5. Incompatible materials

Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	71 mg/l/4h (76 mg/l/4h; Rat; Rat; Experimental value; Experimental value,76 mg/l/4h; Rat; Rat; Experimental value; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value,Rat; Experimental value)
Propylene carbonate (108-32-7)	
LD50 oral rat	> 20000 mg/kg (Rat)
LD50 dermal rabbit	> 24000 mg/kg (Rabbit)

SECTION 12: Ecological information

12.1. Toxicity

acetone (67-64-1)	
LC50 fishes 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)
TLM fish 2	> 1000 ppm (96 h; Pisces)
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)

Propylene carbonate (108-32-7)	
LC50 fishes 1	5300 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	> 1000 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	900 mg/l (72 h; Scenedesmus subspicatus; Biomass)

12.2. Persistence and degradability

M745 – 1001, B745-1001	
Persistence and degradability	Not established.

acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.43 g O^2/g substance
Chemical oxygen demand (COD)	1.92 g O^2/g substance

acetone (67-64-1)	
ThOD	2.20 g O^2/g substance
BOD (% of ThOD)	(20 day(s)) 0.872

Propylene carbonate (108-32-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.046 g O^2/g substance
Chemical oxygen demand (COD)	1.29 g O^2/g substance

12.3. Bioaccumulative potential

M745 – 1001, B745-1001	
Bioaccumulative potential	Not established.

acetone (67-64-1)	
BCF fish 1	0.69 (Pisces)
BCF other aquatic organisms 1	3
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.

Propylene carbonate (108-32-7)	
Log Pow	-0.48 - -0.41 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.

12.4. Mobility in soil

acetone (67-64-1)	
Surface tension	0.0237 N/m

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not discharge into drains or the environment.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1090 Acetone, 3, II

UN-No.(DOT) : 1090

DOT NA no. : UN1090

DOT Proper Shipping Name : Acetone

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquids

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

Additional information

Other information : No supplementary information available.

ADR

Packing group : II
Class 3 - Flammable liquids
Hazard identification number 33
Classification code F1
Danger labels (ADR) 3 - Flammable liquids
Proper shipping name Acetone

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) ''On deck only'' on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Air transport

DOT Quantity Limitations Passenger Aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

SECTION 15: Regulatory information

15.1. US Federal regulations

M745 – 1001, B745-1001	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	5000 lb

Propylene carbonate (108-32-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Acetone (67-64-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Eye Irrit. 2A H319
STOT SE 3 H336

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11
Xi; R36
R66
R67

15.2.2. National regulations

Acetone (67-64-1)
Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

acetone (67-64-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

SDS US (GHS HazCom 2012)

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Nothing herein shall be considered as recommending practices or products in violation of any patent, law or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. WE MAKE NO WARRANTIES REGARDING THE PRODUCTS AND DISCLAIM ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : INSTANT ADHESIVE ACTIVATOR 2 OZ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Solvent based activator to increase cure speed of cyanoacrylate adhesives

1.3. Details of the supplier of the safety data sheet

RPM Wood Finishes Group
3194 Hickory Blvd
Hudson, NC 28638 USA
T: 828-728-8266; F: 828-728-2409

www.RPMWFG.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300; CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225
Muta. 1B H340
Carc. 1B H350
STOT RE 2 H373

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS02 GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour
H340 - May cause genetic defects
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P308+P313 - IF exposed or concerned: Get medical advice/attention
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to local, regional, national, and international regulations

2.3. Other hazards

Highly flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. In use, may form flammable / explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.1. Substances

Full text of H-phrases: see section 16

3.2. Mixture

Hazardous ingredients:

Name	Product identifier	%	GHS-US classification
Hydrotreated light naptha	(CAS No) 64742-49-0	99.0%	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

Name	Product identifier	%	GHS-US classification
N,N-dimethyl-p-toluidine	(CAS No) 99-97-8	1.0%	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

First-aid measures after skin contact : Rinse skin immediately with plenty of soap and water/shower for 10 minutes or longer. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact : Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause genetic defects. May cause cancer. Causes damage to organs.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : May cause slight irritation.

Symptoms/injuries after ingestion : Risk of aspiration pneumonia. May be fatal if swallowed and enters airways.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Protective clothing. Protective goggles. Safety glasses. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Methods for cleaning up : Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools and equipment in clean-up procedure.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment. Use explosion-proof electrical,ventilating, lighting equipment.

Storage conditions : Store in a cool, well ventilated and fireproof area. Keep container tightly closed. Keep away from sources of ignition. Keep away from direct sunlight. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Incompatible products : Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Naphtha (petroleum), hydrotreated light (64742-49-0)		
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing. Wear chemically resistant protective gloves.

Respiratory protection : Wear appropriate mask. Wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour : Clear

Odour : Mild, aliphatic hydrocarbons.

Relative evaporation rate (butylacetate=1) : 4.2

Melting point : -101°C

Boiling point : 66°C - 98°C

Flash point : -4 °C

Self ignition temperature : 254 °C

Vapour pressure : 19 mm Hg @68°F

Relative vapour density at 20 °C : 3.1

Specific Gravity : 0.684 @ 77°F

Solubility : Negligible.

Explosive limits : 1.1 - 6.7 vol %

9.2. Other information

VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Avoid high temperatures, direct sunlight, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge.

10.5. Incompatible materials

Strong bases. Strong acids. Oxidizing agent. Sources of ignition. Direct sunlight. Heat sources.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Naphtha (petroleum), hydrotreated light (64742-49-0)	
LD50 oral rat	> 15000 mg/kg
LD50 dermal rat	> 3000 mg/kg

N,N-dimethyl-p-toluidine (99-97-8)	
ATE (oral)	100.000 mg/kg bodyweight
ATE (dermal)	300.000 mg/kg bodyweight
ATE (gases)	700.000 ppmV/4h
ATE (vapours)	3.000 mg/l/4h
ATE (dust,mist)	0.500 mg/l/4h

SECTION 12: Ecological information

12.1. Toxicity

N,N-dimethyl-p-toluidine (99-97-8)	
LC50 fishes 1	46 mg/l (96 h; Pimephales promelas; Lethal)

12.2. Persistence and degradability

M745-2002, M745-2005, M745-1524	
Persistence and degradability	Biodegradable.

N,N-dimethyl-p-toluidine (99-97-8)	
Persistence and degradability	Biodegradable in water. Low potential for adsorption in soil.

12.3. Bioaccumulative potential

M745-2002, M745-2005, M745-1524	
Bioaccumulative potential	Not established.

N,N-dimethyl-p-toluidine (99-97-8)	
BCF fish 1	33 (Pisces)
Log Pow	1.729 (Experimental value; 35 °C,Experimental value; 35 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment. Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : After draining, leave to vent in a safe place away from sources of ignition and heat. Dispose of in a regulated landfill site or other method for hazardous or toxic wastes. Dispose in a safe manner in accordance with local and national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment. RCRA hazardous waste. D001 (Ignitable). Incinerate waste in accordance with EPA and local regulations

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN3295 Hydrocarbons, liquid, n.o.s., 3, II

UN-No.(DOT) : 3295

DOT NA no. : UN3295

DOT Proper Shipping Name : Hydrocarbons, liquid, n.o.s.

Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquids

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

DOT Vessel Stowage Location : B - (i) The material may be stowed ''on deck'' or ''under deck'' on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) ''On deck only'' on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Additional information

Other information : No supplementary information available.

ADR

Transport document description : UN 3295, Packaging group II, class 3

Transport by sea

Transport document description : UN 3295, Packaging group II, class 3

Air transport

Transport document description : UN 3295, Packaging group II, class 3

SECTION 15: Regulatory information

15.1. US Federal regulations

Naphtha (petroleum), hydrotreated light, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).] (64742-49-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

N,N-dimethyl-p-toluidine (99-97-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

All components of this product are on the Canadian DSL list

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Muta. 1B H340
Carc. 1B H350
STOT RE 2 H373

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 4	Flammable liquids, Category 4
Muta. 1B	Germ cell mutagenicity, Category 1B
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H225	Highly flammable liquid and vapour
H227	Combustible liquid
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H331	Toxic if inhaled
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

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