

M745-2002 (Liquid & Pump Spray)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 11/21/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Name : M745-2002 (Liquid & Pump Spray)
Product code : **M745-2002 (2 Oz)**

1.2. Recommended use and restrictions on use

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

1.3. Supplier

Supplier

RPM Industrial Coatings Group
2220 US Highway 70 SE, Ste 100
Hickory, NC 28602
Phone: 828-728-8266
Fax: 828-728-2409

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300
CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Carcinogenicity Category 2	H351	Suspected of causing cancer
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment – Acute Hazard Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 1	H410	Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer

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Precautionary statements (GHS US)	H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects : P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing vapors, mist, spray. P271 - Use only outdoors or in a well-ventilated area. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P310 - Immediately call a poison center or doctor. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P332+P313 - If skin irritation occurs: Get medical advice/attention. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P233 - Keep container tightly closed. P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : In use, may form flammable/explosive vapor-air mixture.

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
n-heptane	CAS-No.: 142-82-5	≥ 90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N,N-dimethyl-p-toluidine	CAS-No.: 99-97-8	≥ 0.1 – < 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:vapour), H330 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

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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 person to fresh air and keep comfortable for breathing. If symptoms persist, consult a doctor.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth. Drink plenty of water. Do NOT induce vomiting.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Suspected of causing cancer.
Expected Symptoms/Effects, Acute and Delayed	: May cause drowsiness or dizziness. Repeated or prolonged skin contact may cause dermatitis and defatting.
Symptoms/effects	: Symptoms may include dizziness, headache, nausea and loss of coordination.
Symptoms/effects after inhalation	: May cause headache, nausea and irritation of respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation. Redness of the eye tissue.
Symptoms/effects after ingestion	: Risk of aspiration pneumonia. May be fatal if swallowed and enters airways. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal pain, nausea.
Most Important Symptoms/Effects	: Aspiration of the product into the lungs may cause very serious pneumonia.
Chronic symptoms	: Suspected of causing cancer.

4.3. Immediate medical attention and special treatment, if necessary

An eyewash station should be available on the premises, near to any point of possible exposure. . If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: alcohol resistant foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Hazardous decomposition products in case of fire	: Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves.
Emergency procedures : Evacuate unnecessary personnel. Keep upwind. Do not breathe vapors. No open flames, no sparks, and no smoking.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. solvent-resistant gloves. Solvent-resistant apron and boots.
Emergency procedures : No open flames. No smoking. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Contain the spilled material by bunding. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

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.
Methods for cleaning up : Use non-sparking tools. Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : In use, may form flammable vapor-air mixture. Flammable vapors may accumulate in the container.
Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only non-sparking tools. Avoid breathing vapors. Contaminated work clothing should not be allowed out of the workplace.
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 : Keep in a cool, well-ventilated place away from heat. Store in tightly closed, leak-proof containers. Use explosion-proof lighting, ventilating equipment. Take precautionary measures against static discharge.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Ignition sources, open flames, Heat sources, hot surfaces, Direct sunlight. Keep in fireproof place.
Incompatible products : Strong bases. Strong acids. Strong oxidizing agents.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.
Storage temperature : 2 – 25 °C
Storage area : Fireproof storeroom. Ventilation at floor level. Keep only in original container.
Packaging materials : Always store product in a container of the same material as original container.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OSHA PEL (TWA) [1]	2000 mg/m ³
OSHA PEL (TWA) [2]	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
N,N-dimethyl-p-toluidine (99-97-8)	
USA - AIHA - Occupational Exposure Limits	
WEEL TWA [ppm]	0.5 ppm
Regulatory reference (US-AIHA)	(USA Workplace Environmental Exposure Levels (WEEL)
n-heptane (142-82-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OSHA PEL (TWA) [1]	2000 mg/m ³
OSHA PEL (TWA) [2]	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	350 mg/m ³
NIOSH REL (STEL)	1800 mg/m ³
NIOSH REL (Ceiling)	1800 mg/m ³
NIOSH REL C [ppm]	440 ppm
Regulatory reference (US-NIOSH)	Pocket guide to Chemical Hazards

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8.2. Appropriate engineering controls

- Appropriate engineering controls : Avoid all unnecessary exposure. Ensure that there is a suitable ventilation system. Not less than 3 air exchanges per hour. Proper grounding procedures to avoid static electricity should be followed.
- Environmental exposure controls : Avoid release to the environment. The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Normal overalls. Gloves. Safety glasses.

Hand protection:				
Wear protective gloves. (ANSI 105-2016)				
Type	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4	
Eye protection:				
Safety glasses. (ANSI z87.1)				
Type	Field of application		Characteristics	
Safety glasses	Droplet		With side shields	
Skin and body protection:				
Normal overalls				
Respiratory protection:				
No respiratory protection needed under normal use conditions. [In case of inadequate ventilation] wear respiratory protection. Recommended: Filter AX (brown).				

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear, colorless liquid.
- Color : clear
- Odor : Mildly aromatic. aliphatic hydrocarbons
- Odor threshold : No data available
- pH : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 94 – 98 °C
- Flash point : -4 °C
- Relative evaporation rate (butyl acetate=1) : 4.2
- Flammability (solid, gas) : No data available

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Vapor pressure	: 19 mm Hg @20°C / 68°F
Relative vapor density at 20°C	: 3.1
Particle size	: Not applicable (Liquid)
Relative density	: ~ 0.69
Solubility	: Material insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: > 3
Auto-ignition temperature	: 254 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.64 mm ² /s @20 °C / 68 °F
Viscosity, dynamic	: No data available
Explosion limits	: 1.1 – 7 vol % Lower explosion limit: 1.1 vol % Upper explosion limit: 7 vol %
Explosive properties	: In use, may form flammable/explosive vapor-air mixture.
Oxidizing properties	: Not oxidising.

9.2. Other information

VOC content	: 100 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Highly flammable liquid and vapor.

10.3. Possibility of hazardous reactions

Flammable or explosive vapor/air mixtures may be formed.

10.4. Conditions to avoid

Heat. hot surfaces, naked flames. Sources of ignition. Direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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

LD50 oral rat	980 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	139 mg/kg body weight LD 50 oral (Mouse) : ECHA (European Chemicals Agency)

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N,N-dimethyl-p-toluidine (99-97-8)	
LD50 dermal rabbit	> 2000 mg/kg body weight OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Experimental value, Skin, 14 day(s)
LC50 Inhalation - Rat	1400 mg/m ³ Acute effects inhalation (aerosol)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (vapors)	1.4 mg/l/4h
ATE US (dust, mist)	1.4 mg/l/4h
n-heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Read-Across, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Read Across, Dermal, 14 day(s)
LC50 Inhalation - Rat	> 29.29 mg/l Equivalent to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation.
Skin corrosion/irritation	: Causes skin irritation.
N,N-dimethyl-p-toluidine (99-97-8)	
pH	7.44 (1 vol %, 25 °C)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
N,N-dimethyl-p-toluidine (99-97-8)	
pH	7.44 (1 vol %, 25 °C)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Contains CMR substance(s). N,N-dimethyl-p-toluidine
N,N-dimethyl-p-toluidine (99-97-8)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause drowsiness or dizziness.
n-heptane (142-82-5)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: 0.64 mm ² /s @20 °C / 68 °F
N,N-dimethyl-p-toluidine (99-97-8)	
Viscosity, kinematic	15.368 mm ² /s
n-heptane (142-82-5)	
Viscosity, kinematic	0.641 mm ² /s @20 °C / 68 °F (EN ISO 3104)
Hydrocarbon	Yes
Potential Adverse human health effects and symptoms	: Suspected of causing cancer.
Expected Symptoms/Effects, Acute and Delayed	: May cause drowsiness or dizziness. Repeated or prolonged skin contact may cause dermatitis and defatting.
Symptoms/effects	: Symptoms may include dizziness, headache, nausea and loss of coordination.

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Symptoms/effects after inhalation	: May cause headache, nausea and irritation of respiratory tract. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause slight irritation. Redness of the eye tissue.
Symptoms/effects after ingestion	: Risk of aspiration pneumonia. May be fatal if swallowed and enters airways. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal pain, nausea.
Most Important Symptoms/Effects	: Aspiration of the product into the lungs may cause very serious pneumonia.
Chronic symptoms	: Suspected of causing cancer.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Hazardous to the aquatic environment - Acute Hazard Category 1. Hazardous to the aquatic environment – Chronic Hazard Category 1.
Ecology - water	: Floats on water

N,N-dimethyl-p-toluidine (99-97-8)	
LC50 - Fish [1]	46 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas (Fathead minnow), Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	23.758 mg/l Species: Daphnia magna
EC50 72h - Algae [1]	24.3 mg/l (Pseudokirchneriella subcapitata, Flow-through system, Fresh water, QSAR)
n-heptane (142-82-5)	
LC50 - Fish [1]	375 mg/l Test organisms (species): Mozambique Tilapia (Oreochromis mossambicus)
EC50 72h - Algae [1]	4.338 mg/l (Pseudokirchneriella subcapitata, Fresh water, QSAR, Biomass)
NOEC (chronic)	0.017 mg/l Species: Daphnia magna; Duration: '21 D'

12.2. Persistence and degradability

M745-2002 (Liquid & Pump Spray)	
Persistence and degradability	Biodegradation. aerobic 10d - 70%.
BOD (% of ThOD)	55 % ThOD
N,N-dimethyl-p-toluidine (99-97-8)	
Persistence and degradability	not readily degradable in water.
n-heptane (142-82-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.92 g O ₂ /g substance
Chemical oxygen demand (COD)	0.06 g O ₂ /g substance
ThOD	3.52 g O ₂ /g substance

12.3. Bioaccumulative potential

M745-2002 (Liquid & Pump Spray)	
Partition coefficient n-octanol/water (Log Pow)	> 3
Bioaccumulative potential	Bioaccumulation unlikely.

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N,N-dimethyl-p-toluidine (99-97-8)	
BCF - Fish [1]	33 (calculated value)
Partition coefficient n-octanol/water (Log Pow)	2.81 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): 35 °C)
Bioaccumulative potential	Low bioaccumulation potential.
n-heptane (142-82-5)	
BCF - Other aquatic organisms [1]	552 (calculated value)
Partition coefficient n-octanol/water (Log Pow)	4.66 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).

12.4. Mobility in soil

M745-2002 (Liquid & Pump Spray)	
Ecology - soil	Highly volatile. Floats on water.
N,N-dimethyl-p-toluidine (99-97-8)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.1 (calculated value)
Ecology - soil	Low potential for adsorption in soil.
n-heptane (142-82-5)	
Surface tension	19.66 mN/m @25°C / 77°F
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
1206	Not applicable	1206	1206
14.2. Proper Shipping Name			
Heptanes	Not applicable	HEPTANES	Heptanes

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DOT	TDG	IMDG	IATA
14.3. Transport hazard class(es)			
3	Not applicable	3	3
 <p>Not applicable</p>	Not applicable		
14.4. Packing group			
II	Not applicable	II	II
14.5. Environmental hazards			
Dangerous for the environment: Yes	Not applicable	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Special precautions for user

DOT	
UN-No.(DOT)	: UN1206
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
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.
TDG	
Not applicable	
IMDG	
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: B

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Properties and observations (IMDG) : Colourless, volatile liquids. Explosive limits: 1.1% to 6.7% n-HEPTANE: flashpoint -4°C c.c.
Immiscible with water. Irritating to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 3H

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Carcinogenicity Health hazard - Aspiration hazard Health hazard - Skin corrosion or Irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Carcinogenicity
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n-heptane (142-82-5)

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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15.2. International regulations

CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

n-heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

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

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

n-heptane (142-82-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

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

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Data sources : Supplier's safety documents. ECHA (European Chemicals Agency). UNECE, <http://www.unece.org/>.

Full text of H-phrases

H225	Highly flammable liquid and vapor
H227	Combustible liquid
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H330	Fatal if inhaled
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

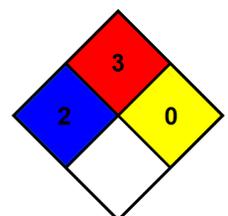
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



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Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB IC)

Physical : 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion

Personal protection : C - Safety glasses, Gloves, Synthetic apron

Indication of changes:
Initial preparation date.

Safety Data Sheet (SDS), USA

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