# SAFETY DATA SHEET

ASU1350

### Section 1. Identification

**Product name** : DUPLI-COLOR® Scratch Fix All-in-1™

Sparkle Silver M - see 'DC-CC' SDS

**Product code** : ASU1350 Other means of : Not available.

identification

**Product type** : Liquid.

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

Paint or paint related material.

Manufacturer : Dupli-Color Products Company

Cleveland, OH 44115

**Emergency telephone** number of the company : (216) 566-2917

**Product Information Telephone Number** 

: (800) 247-3270

**Regulatory Information Telephone Number** 

: (216) 566-2902

**Transportation Emergency** 

**Telephone Number** 

: (800) 424-9300

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

**CARCINOGENICITY - Category 2** 

TOXIC TO REPRODUCTION (Unborn child) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity:

2.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity:

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 22%

**GHS** label elements

**Hazard pictograms** 







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### Section 2. Hazards identification

#### Signal word

: Danger

#### **Hazard statements**

: Highly flammable liquid and vapor.

Harmful if swallowed.

Causes serious eve irritation.

Causes skin irritation.

Suspected of damaging the unborn child.

Suspected of causing cancer.
May cause respiratory irritation.
May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

#### General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### **Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Response

et medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

# Storage Disposal

Store locked up. Store in a well-ventilated place. Keep cool.

Supplemental label

Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Supplemental label

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

# Hazards not otherwise

: None known.

## classified

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

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: Not available.

**CAS** number/other identifiers

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## Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number
Toluene	≥25 - ≤50	108-88-3
Methyl Ethyl Ketone	≥10 - ≤25	78-93-3
Ethyl 3-Ethoxypropionate	≥10 - ≤25	763-69-9
Methyl Isobutyl Ketone	≤10	108-10-1
Ethanol	≤5	64-17-5
Cellulose Nitrate	≤3	9004-70-0
Aluminum	≤3	7429-90-5
2-Propanol	≤3	67-63-0
Ethyl Acetate	≤3	141-78-6
Med. Aliphatic Hydrocarbon Solvent	<1	64742-88-7
Xylene, mixed isomers	<1	1330-20-7
Ethylbenzene	≤0.3	100-41-4
Light Aromatic Hydrocarbons	≤0.3	64742-95-6
Hydrotreated Heavy Petroleum Naphtha	≤0.3	64742-48-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

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### Section 4. First aid measures

: Can cause central nervous system (CNS) depression. May cause drowsiness or Inhalation

dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is

> suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

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give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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### Section 5. Fire-fighting measures

#### Specific hazards arising from the chemical

: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

#### **Hazardous thermal** decomposition products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

#### **Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

#### **Special protective** equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

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: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible. absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	CAS#	Exposure limits
Toluene	108-88-3	OSHA PEL Z2 (United States, 2/2013).  TWA: 200 ppm 8 hours.  CEIL: 300 ppm  AMP: 500 ppm 10 minutes.  NIOSH REL (United States, 10/2016).  TWA: 100 ppm 10 hours.  TWA: 375 mg/m³ 10 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m³ 15 minutes.  ACGIH TLV (United States, 3/2019).  TWA: 20 ppm 8 hours.
Methyl Ethyl Ketone	78-93-3	ACGIH TLV (United States, 3/2019).  TWA: 200 ppm 8 hours.  TWA: 590 mg/m³ 8 hours.  STEL: 300 ppm 15 minutes.  STEL: 885 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 200 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  STEL: 300 ppm 15 minutes.  STEL: 885 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 200 ppm 8 hours.

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Ethyl 3-Ethoxypropionate Methyl Isobutyl Ketone	763-69-9 108-10-1	TWA: 590 mg/m³ 8 hours. None.  ACGIH TLV (United States, 3/2019).  TWA: 20 ppm 8 hours.  STEL: 75 ppm 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 50 ppm 10 hours.  TWA: 205 mg/m³ 10 hours.  STEL: 75 ppm 15 minutes.  STEL: 75 ppm 15 minutes.  STEL: 300 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 410 mg/m³ 8 hours.
Ethanol	64-17-5	ACGIH TLV (United States, 3/2019).  STEL: 1000 ppm 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 1000 ppm 10 hours.  TWA: 1900 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 1000 ppm 8 hours.  TWA: 1900 mg/m³ 8 hours.
Cellulose Nitrate Aluminum	9004-70-0 7429-90-5	None. NIOSH REL (United States, 10/2016).  TWA: 5 mg/m³ 10 hours. Form: Respirable fraction  TWA: 10 mg/m³ 10 hours. Form: Total  OSHA PEL (United States, 5/2018).  TWA: 5 mg/m³, (as Al) 8 hours. Form:  Respirable fraction  TWA: 15 mg/m³, (as Al) 8 hours. Form: Total dust  ACGIH TLV (United States, 3/2019).  TWA: 1 mg/m³ 8 hours. Form: Respirable fraction
2-Propanol	67-63-0	ACGIH TLV (United States, 3/2019).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  NIOSH REL (United States, 10/2016).  TWA: 400 ppm 10 hours.  TWA: 980 mg/m³ 10 hours.  STEL: 500 ppm 15 minutes.  STEL: 1225 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 400 ppm 8 hours.  TWA: 980 mg/m³ 8 hours.
Ethyl Acetate	141-78-6	ACGIH TLV (United States, 3/2019).  TWA: 400 ppm 8 hours.  TWA: 1440 mg/m³ 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 400 ppm 10 hours.  TWA: 1400 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 400 ppm 8 hours.  TWA: 1400 mg/m³ 8 hours.
Med. Aliphatic Hydrocarbon Solvent	64742-88-7	OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 400 mg/m³ 8 hours.

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Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 3/2019).  TWA: 100 ppm 8 hours.  TWA: 434 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.
		STEL: 651 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Ethylbenzene	100-41-4	ACGIH TLV (United States, 3/2019).  TWA: 20 ppm 8 hours.  NIOSH REL (United States, 10/2016).  TWA: 100 ppm 10 hours.  TWA: 435 mg/m³ 10 hours.  STEL: 125 ppm 15 minutes.  STEL: 545 mg/m³ 15 minutes.  OSHA PEL (United States, 5/2018).  TWA: 100 ppm 8 hours.  TWA: 435 mg/m³ 8 hours.
Light Aromatic Hydrocarbons Hydrotreated Heavy Petroleum Naphtha	64742-95-6 64742-48-9	None.

#### Occupational exposure limits (Canada)

Ingredient name	CAS#	Exposure limits
Toluene	108-88-3	CA Alberta Provincial (Canada, 6/2018).  Absorbed through skin.  8 hrs OEL: 50 ppm 8 hours.  8 hrs OEL: 188 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 1/2014).  Absorbed through skin.  TWAEV: 50 ppm 8 hours.  TWAEV: 188 mg/m³ 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.  STEL: 60 ppm 15 minutes.  TWA: 50 ppm 8 hours.
Methyl ethyl ketone	78-93-3	CA Alberta Provincial (Canada, 6/2018).  15 min OEL: 300 ppm 15 minutes.  8 hrs OEL: 200 ppm 8 hours.  8 hrs OEL: 590 mg/m³ 8 hours.  15 min OEL: 885 mg/m³ 15 minutes.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 50 ppm 8 hours.  STEL: 100 ppm 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  TWA: 200 ppm 8 hours.  STEL: 300 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 50 ppm 8 hours.  TWAEV: 150 mg/m³ 8 hours.  STEV: 100 ppm 15 minutes.  STEV: 300 mg/m³ 15 minutes.

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		CA Saskatchewan Provincial (Canada, 7/2013). STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.
Methyl isobutyl ketone	108-10-1	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 205 mg/m³ 8 hours.  8 hrs OEL: 50 ppm 8 hours.  15 min OEL: 75 ppm 15 minutes.  15 min OEL: 307 mg/m³ 15 minutes.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 20 ppm 8 hours.  STEL: 75 ppm 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  TWA: 20 ppm 8 hours.  STEL: 75 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 50 ppm 8 hours.  TWAEV: 205 mg/m³ 8 hours.  STEV: 75 ppm 15 minutes.  STEV: 75 ppm 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 75 ppm 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 75 ppm 15 minutes.  TWA: 50 ppm 8 hours.
Ethyl alcohol	64-17-5	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 1000 ppm 8 hours. 8 hrs OEL: 1880 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 5/2019).  STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 1/2018).  STEL: 1000 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014).  TWAEV: 1000 ppm 8 hours. TWAEV: 1880 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.
Isopropyl alcohol	67-63-0	CA Alberta Provincial (Canada, 6/2018).  15 min OEL: 984 mg/m³ 15 minutes.  8 hrs OEL: 200 ppm 8 hours.  15 min OEL: 400 ppm 15 minutes.  8 hrs OEL: 492 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  TWA: 200 ppm 8 hours.  STEL: 400 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 400 ppm 8 hours.  TWAEV: 983 mg/m³ 8 hours.  STEV: 500 ppm 15 minutes.

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Xylene	1330-20-7	STEV: 1230 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 400 ppm 15 minutes.  TWA: 200 ppm 8 hours.  CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 100 ppm 8 hours.  15 min OEL: 651 mg/m³ 15 minutes.  15 min OEL: 150 ppm 15 minutes.  8 hrs OEL: 434 mg/m³ 8 hours.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 100 ppm 8 hours.  STEL: 150 ppm 15 minutes.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 100 ppm 8 hours.  STEV: 150 ppm 15 minutes.  STEV: 651 mg/m³ 15 minutes.  CA Ontario Provincial (Canada, 1/2018).  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 150 ppm 15 minutes.  TWA: 100 ppm 8 hours.
Ethylbenzene	100-41-4	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 100 ppm 8 hours.  8 hrs OEL: 434 mg/m³ 8 hours.  15 min OEL: 543 mg/m³ 15 minutes.  15 min OEL: 125 ppm 15 minutes.  CA British Columbia Provincial (Canada, 5/2019).  TWA: 20 ppm 8 hours.  CA Ontario Provincial (Canada, 1/2018).  TWA: 20 ppm 8 hours.  CA Quebec Provincial (Canada, 1/2014).  TWAEV: 100 ppm 8 hours.  TWAEV: 434 mg/m³ 8 hours.  STEV: 125 ppm 15 minutes.  STEV: 543 mg/m³ 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 125 ppm 15 minutes.  TWA: 100 ppm 8 hours.

#### Occupational exposure limits (Mexico)

	CAS#	Exposure limits
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
Methyl Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
Methyl Isobutyl Ketone	108-10-1	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours. STEL: 75 ppm 15 minutes.

 
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ethanol	64-17-5	NOM-010-STPS-2014 (Mexico, 4/2016).
		STEL: 1000 ppm 15 minutes.
2-Propanol	67-63-0	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 200 ppm 8 hours.
		STEL: 400 ppm 15 minutes.
Ethyl Acetate	141-78-6	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 400 ppm 8 hours.
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016).
		TWA: 20 ppm 8 hours.

#### **Appropriate engineering** controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point/boiling range : 72°C (161.6°F)

Flash point : Closed cup: 2°C (35.6°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 5.6 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 1% Upper: 19%

Vapor pressure : 12.1 kPa (90.6 mm Hg) [at 20°C]

**Vapor density** : 1.5 [Air = 1]

Relative density : 0.91

Solubility : Not available.

Partition coefficient: noctanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)

Molecular weight : Not applicable.

**Aerosol product** 

Heat of combustion : 24.099 kJ/g

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not

allow vapor to accumulate in low or confined areas.

**Incompatible materials**: Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition products

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: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Ethyl 3-Ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Ethyl Acetate	LD50 Oral	Rat	5620 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
Hydrotreated Heavy	LC50 Inhalation Vapor	Rat	8500 mg/m <sup>3</sup>	4 hours
Petroleum Naphtha			_	
	LD50 Oral	Rat	>6 g/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				UI	
	Skin - Mild irritant	Rabbit	-	435 mg	_
	Skin - Moderate irritant	Rabbit	-	24 hours 20	_
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	_	24 hours 14	_
'''				mg	
	Skin - Moderate irritant	Rabbit	_	24 hours 500	_
				mg	
Ethyl 3-Ethoxypropionate	Skin - Mild irritant	Rabbit	_	24 hours 500	_
, y , , , , , , , , , , , , , , , , , ,				mg	
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	_	24 hours 100	_
				UI	
	Eyes - Severe irritant	Rabbit	_	40 mg	_
	Skin - Mild irritant	Rabbit	_	24 hours 500	_
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	_	24 hours 500	_
	1			mg	
	Eyes - Moderate irritant	Rabbit	_	0.066666667	_
				minutes 100	
				mg	
	Eyes - Moderate irritant	Rabbit	_	100 UI	_
	Eyes - Severe irritant	Rabbit	_	500 mg	_
	Skin - Mild irritant	Rabbit	_	400 mg	_
		Rabbit	-	24 hours 20	_
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-

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			mg	
Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
			mg	
Eyes - Moderate irritant	Rabbit	-	10 mg	-
Eyes - Severe irritant	Rabbit	-	100 mg	-
Skin - Mild irritant	Rabbit	-	500 mg	-
Eyes - Mild irritant	Rabbit	-	87 mg	-
Eyes - Severe irritant	Rabbit	-	24 hours 5	-
			mg	
Skin - Mild irritant	Rat	-	8 hours 60 UI	-
Skin - Moderate irritant	Rabbit	-	24 hours 500	-
			mg	
Skin - Moderate irritant	Rabbit	-	100 %	-
Eyes - Severe irritant	Rabbit	-	500 mg	-
Skin - Mild irritant	Rabbit	-	24 hours 15	-
			mg	
Eyes - Mild irritant	Rabbit	-	24 hours 100	-
			UI	
	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Eyes - Severe irritant Skin - Moderate irritant Eyes - Severe irritant Eyes - Severe irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Severe irritant Rabbit Rabbit	Eyes - Moderate irritant Eyes - Severe irritant Skin - Mild irritant Eyes - Mild irritant Eyes - Mild irritant Eyes - Severe irritant  Skin - Mild irritant Skin - Moderate irritant  Skin - Moderate irritant Eyes - Severe irritant  Rabbit -  Rabbit  Rabbit	Eyes - Moderate irritant  Eyes - Moderate irritant  Eyes - Severe irritant  Eyes - Severe irritant  Eyes - Severe irritant  Skin - Mild irritant  Eyes - Severe irritant  Eyes - Severe irritant  Eyes - Severe irritant  Rabbit  Rabbit

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Methyl Isobutyl Ketone	_	2B	-
Ethanol	_	1	-
2-Propanol	_	3	-
Xylene, mixed isomers	_	3	-
Ethylbenzene	-	2B	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation
Methyl Ethyl Ketone	Category 3 Category 3	Not applicable.	Narcotic effects Respiratory tract irritation
Methyl Isobutyl Ketone	Category 3 Category 3	Not applicable.	Narcotic effects Respiratory tract irritation
Ethanol	Category 3 Category 3	Not applicable.	Narcotic effects Respiratory tract irritation

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2-Propanol	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract
			irritation
Ethyl Acetate	Category 3	Not applicable.	Narcotic effects
Med. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Xylene, mixed isomers	Category 3	Not applicable.	Respiratory tract irritation
Ethylbenzene	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
Hydrotreated Heavy Petroleum Naphtha	Category 3	Not applicable.	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Methyl Ethyl Ketone	Category 2	Not determined	Not determined
Methyl Isobutyl Ketone	Category 2	Not determined	Not determined
Ethanol	Category 2	Not determined	Not determined
2-Propanol	Category 2	Not determined	Not determined
Med. Aliphatic Hydrocarbon Solvent	Category 1	Not determined	Not determined
Xylene, mixed isomers	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined
Light Aromatic Hydrocarbons	Category 2	Not determined	Not determined

#### **Aspiration hazard**

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Med. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Hydrotreated Heavy Petroleum Naphtha	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

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: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation.

**Ingestion**: Harmful if swallowed. Can cause central nervous system (CNS) depression.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

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**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

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Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity** : Suspected of damaging the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	1755.74 mg/kg
Inhalation (vapors)	157.59 mg/l

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### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water Chronic NOEC 1000 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry Daphnia - Daphnia magna	96 hours 21 days
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water Acute EC50 5091000 µg/l Fresh water	Algae - Skeletonema costatum Daphnia - Daphnia magna -	96 hours 48 hours
Madhad Iashah di Katana	Acute LC50 3220000 µg/l Fresh water	Larvae Fish - Pimephales promelas	96 hours
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water Chronic NOEC 78 mg/l Fresh water Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna Fish - Pimephales promelas -	96 hours 21 days 33 days
Ethanol	Acute EC50 17.921 mg/l Marine water	Embryo Algae - Ulva pertusa	96 hours 48 hours
	Acute EC50 2000 μg/l Fresh water Acute LC50 25500 μg/l Marine water	Daphnia - Daphnia magna Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water	Fish - Oncorhynchus mykiss Algae - Ulva pertusa	4 days 96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
Cellulose Nitrate	Acute EC50 579000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Aluminum	Acute LC50 38000 μg/l Fresh water Acute LC50 120 μg/l Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Embryo	48 hours 96 hours
	Chronic NOEC 9 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
2-Propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water Acute LC50 4200 mg/l Fresh water	Crustaceans - Crangon crangon Fish - Rasbora heteromorpha	48 hours 96 hours
Ethyl Acetate	Acute EC50 2500000 µg/l Fresh water Acute LC50 750000 µg/l Fresh water Acute LC50 154000 µg/l Fresh water	Algae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia cucullata	96 hours 48 hours 48 hours
	Acute LC50 212500 μg/l Fresh water Chronic NOEC 2400 μg/l Fresh water	Fish - Heteropneustes fossilis Daphnia - Daphnia magna	96 hours 21 days
Vulana miyad igamara	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
Ethylbenzene	Acute LC50 13400 μg/l Fresh water Acute EC50 4600 μg/l Fresh water	Fish - Pimephales promelas Algae - Pseudokirchneriella subcapitata	96 hours 72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

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Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
Methyl Isobutyl Ketone	-	-	Readily
Ethanol	-	-	Readily
2-Propanol	-	-	Readily
Ethyl Acetate	-	-	Readily
Xylene, mixed isomers	-	-	Readily
Ethylbenzene	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	low
Ethyl Acetate	-	30	low
Xylene, mixed isomers	-	8.1 to 25.9	low
Light Aromatic Hydrocarbons	-	10 to 2500	high
Hydrotreated Heavy	-	10 to 2500	high
Petroleum Naphtha			

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

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: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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### **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3	S
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).			Emergency schedules F-E, S-E
	ERG No.	ERG No.	ERG No.		
	128	128	128		

Special precautions for user :

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

Proper shipping name : Not available.

Ship type : Not available.

Pollution category : Not available.

## Section 15. Regulatory information

#### **SARA 313**

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

#### **International regulations**

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# Section 15. Regulatory information

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Korea inventory (KECI): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

#### **History**

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

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IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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### Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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