SAFETY DATA SHEET

DE1650

Section 1. Identification

Product name

: DUPLI-COLOR™ Engine Enamel with Ceramic

Cast Coat Aluminum

Product code

: DE1650

Other means of

: Not available.

identification **Product type**

: Aerosol.

Dupli-Color Engine

ENamel with Ceramic

with Stands Heat up To Relevant identified uses of the substance or mixture and uses advised against

500 of Spray DE 1650

Cast coat Aluminum

Manufacturer

: Dupli-Color Products Company

Cleveland, OH 44115

Emergency telephone number of the company

Paint or paint related material.

: (216) 566-2917

Product Information Telephone Number

: (800) 247-3270

Regulatory Information **Telephone Number**

: (216) 566-2902

Transportation Emergency

: (800) 424-9300

Telephone Number

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 AEROSOLS - Category 1

GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (Unborn child) - Category 1B

TOXIC TO REPRODUCTION (Fertility) - 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

ASPIRATION HAZARD - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 24.3% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 79.2% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 75.

5%

GHS label elements

Hazard pictograms







Signal word

: Danger

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Section 2. Hazards identification

Hazard statements

: Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

Causes skin irritation.

May damage the unborn child. Suspected of damaging fertility. Suspected of causing cancer.

May be fatal if swallowed and enters airways.

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. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn. even after use.

Response

: Get 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: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. 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

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

Disposal

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

Supplemental label elements

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. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise classified

: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

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Other means of identification

: Not available.

CAS number/other identifiers

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Section 3. Composition/information on ingredients

Ingredient name	% by weight	CAS number		
Acetone	≥25 - ≤50	67-64-1		
Propane	≥10 - ≤25	74-98-6		
Butane	≥10 - ≤25	106-97-8		
Isopropyl Acetate	İ ≤10	108-21-4		
Xylene mixed isomers	≤5	1330-20-7		
Cellulose Nitrate	≤5	9004-70-0		
n-Butyl Acetate	≤5	123-86-4		
Ethyl 3-Ethoxypropionate	≤3	763-69-9		
Methyl Ethyl Ketone	≤3	78-93-3		
2-Propanol	≤3	67-63-0		
Methyl Isobutyl Ketone	≤3	108-10-1		
Lt. Aliphatic Hydrocarbon Solvent	≤3	64742-89-8		
Amyl Acetate	≤3	628-63-7		
Ethylbenzene	<1	100-41-4		
Butyl Benzyl Phthalate	<1	85-68-7		
Med. Aliphatic Hydrocarbon Solvent	<1	64742-88-7		
Titanium Dioxide	≤1	13463-67-7		

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

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

Inhalation

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

dizziness. May cause respiratory irritation.

Skin contact

Causes skin irritation.

Ingestion

Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

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:

nausea or vomiting 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 give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: None known.

Specific hazards arising from the chemical

: Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

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Section 5. Fire-tighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen 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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. 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 non-emergency 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

: 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 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 swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.

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Section 7. Handling and storage

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.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. 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	Exposure limits
Acetone	ACGIH TLV (United States, 3/2017).
	TWA: 250 ppm 8 hours.
	STEL: 500 ppm 15 minutes.
	NIOSH REL (United States, 10/2016).
	TWA: 250 ppm 10 hours.
	TWA: 590 mg/m³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 1000 ppm 8 hours.
	TWA: 2400 mg/m³ 8 hours.
Propane	NIOSH REL (United States, 10/2016).
	TWA: 1000 ppm 10 hours.
	TWA: 1800 mg/m³ 10 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 1000 ppm 8 hours.
	TWA: 1800 mg/m³ 8 hours.
	ACGIH TLV (United States, 3/2017). Oxyger
	Depletion [Asphyxiant].
Butane	NIOSH REL (United States, 10/2016).
	TWA: 800 ppm 10 hours.
	TWA: 1900 mg/m³ 10 hours.
	ACGIH TLV (United States, 3/2017).
	STEL: 1000 ppm 15 minutes.
Isopropyl Acetate	ACGIH TLV (United States, 3/2017).
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 250 ppm 8 hours.
Volene militari i annon	TWA: 950 mg/m³ 8 hours.
Xylene mixed isomers	ACGIH TLV (United States, 3/2017).
	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, 6/2016). TWA: 100 ppm 8 hours.
	TWA: 100 ppin 8 nours.
Collulado Nitrato	
Cellulose Nitrate n-Butyl Acetate	None. NIOSH REL (United States, 10/2016).
n Daty Modale	TWA: 150 ppm 10 hours.
	TWA: 710 mg/m³ 10 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 950 mg/m³ 15 minutes.
	OSHA PEL (United States, 6/2016).
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Ethyl 3-Ethoxypropionate Methyl Ethyl Ketone

2-Propanol

Methyl Isobutyl Ketone

Lt. Aliphatic Hydrocarbon Solvent Amyl Acetate

Ethylbenzene

TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2017).

STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.

ACGIH TLV (United States, 3/2017).

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, 6/2016).

TWA: 200 ppm 8 hours. TWA: 590 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2017).

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, 6/2016).

TWA: 400 ppm 8 hours. TWA: 980 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2017).

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: 300 mg/m³ 15 minutes. OSHA PEL (United States, 6/2016).

TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours.

None.

NIOSH REL (United States, 10/2016).

TWA: 100 ppm 10 hours. TWA: 525 mg/m3 10 hours.

ACGIH TLV (United States, 3/2017).

TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 100 ppm 8 hours. TWA: 525 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2017).

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, 6/2016).

TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.

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Butyl Benzyl Phthalate None. Med. Aliphatic Hydrocarbon Solvent OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 400 mg/m³ 8 hours. ACGIH TLV (United States, 3/2017). Titanium Dioxide TWA: 10 mg/m³ 8 hours. OSHA PEL (United States, 6/2016). TWA: 15 mg/m³ 8 hours. Form: Total dust

Ingredient name	Exposure limits		
Acetone	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 6/2017). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 500 ppm 8 hours. STEV: 1190 mg/m³ 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.		
Propane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2017). TWA: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m³ 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 1000 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.		
Butane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2017). TWA: 600 ppm 8 hours. STEL: 750 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 800 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes.		

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Isopropyl Acetate

Xylene mixed isomers

n-Butyl Acetate

TWA: 1000 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).

15 min OEL: 200 ppm 15 minutes. 8 hrs OEL: 416 mg/m³ 8 hours. 15 min OEL: 832 mg/m³ 15 minutes.

8 hrs OEL: 100 ppm 8 hours.

CA British Columbia Provincial (Canada. 6/2017).

TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes.

CA Ontario Provincial (Canada, 7/2015).

TWA: 100 ppm 8 hours. STEL: 200 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 250 ppm 8 hours. TWAEV: 1040 mg/m³ 8 hours. STEV: 310 ppm 15 minutes. STEV: 1290 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 200 ppm 15 minutes.

TWA: 100 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).

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. 6/2017).

TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m3 15 minutes.

CA Ontario Provincial (Canada, 7/2015).

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.

CA Alberta Provincial (Canada, 4/2009).

15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m³ 15 minutes. 8 hrs OEL: 150 ppm 8 hours.

8 hrs OEL: 713 mg/m³ 8 hours.

CA British Columbia Provincial (Canada, 6/2017).

TWA: 20 ppm 8 hours.

CA Ontario Provincial (Canada, 7/2015).

TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 150 ppm 8 hours. TWAEV: 713 mg/m³ 8 hours. STEV: 200 ppm 15 minutes. STEV: 950 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada,

7/2013).

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Methyl Ethyl Ketone

2-Propanol

Methyl Isobutyl Ketone

STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).

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, 6/2017).

TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.

CA Ontario Provincial (Canada, 7/2015).

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.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).

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, 6/2017).

TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.

CA Ontario Provincial (Canada, 7/2015).

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. 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, 4/2009).

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, 6/2017).

TWA: 20 ppm 8 hours. STEL: 75 ppm 15 minutes.

CA Ontario Provincial (Canada, 7/2015).

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: 307 mg/m³ 15 minutes.

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	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 75 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Ethylbenzene	CA Alberta Provincial (Canada, 4/2009).
	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,
	6/2017).
	TWA: 20 ppm 8 hours.
	CA Ontario Provincial (Canada, 7/2015).
	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.
	<u></u>

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
Acetone	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 500 ppm 8 hours.
	STEL: 750 ppm 15 minutes.
Propane	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 1000 ppm 8 hours.
Butane	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 1000 ppm 8 hours.
Isopropyl Acetate	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 100 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
Xylene mixed isomers	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
n-Butyl Acetate	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 150 ppm 8 hours.
	STEL: 200 ppm 15 minutes.
Methyl Ethyl Ketone	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 200 ppm 8 hours.
	STEL: 300 ppm 15 minutes.
2-Propanol	NOM-010-STPS-2014 (Mexico, 4/2016).
•	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes.
Methyl Isobutyl Ketone	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 50 ppm 8 hours.
	STEL: 75 ppm 15 minutes.
Ethylbenzene	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.

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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.

Section 9. Physical and chemical properties

<u>Appearance</u>

Physical state

: Liquid.

Color

Not available.

Odor

: Not available. : Not available.

Odor threshold

: Not available.

Melting point/freezing point

: Not available.

Boiling point/boiling range

: Not available.

Flash point

: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]

Evaporation rate

: 5.6 (butyl acetate = 1)

Flammability (solid, gas)

: Not available.

Lower and upper explosive

: Lower: 0.9%

(flammable) limits

Upper: 12.8%

Vapor pressure

: 101.3 kPa (760 mm Hg) [at 20°C]

Vapor density

1.55 [Air = 1]

Relative density

: 0.76

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Solubility

Not available.

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Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/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

Type of aerosol

: Spray

Heat of combustion

: 28.914 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).

Incompatible materials

: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
Isopropyl Acetate	LD50 Oral	Rat	6750 mg/kg	-
Xylene mixed isomers	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Ethyl 3-Ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	_
	LD50 Oral	Rat	5000 mg/kg	-
Methyl Isobutyl Ketone	LD50 Oral	Rat	2080 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	ļ -
•	LD50 Oral	Rat	3500 mg/kg	_
Butyl Benzyl Phthalate	LD50 Dermal	Rabbit	>10000 mg/kg	_
-	LD50 Dermal	Rat	6700 mg/kg	_
	LD50 Oral	Rat	2330 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 parts	-
				per million	
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	. [milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	· ·	*		milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
		<u> </u>		milligrams	
Isopropyl Acetate	Skin - Mild irritant	Rabbit	_	24 hours 500	-
,				milligrams	
Xylene mixed isomers	Eyes - Mild irritant	Rabbit	-	87 milligrams	-
,	Eyes - Severe irritant	Rabbit	_	24 hours 5	_
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	l -
		'```		microliters	
	Skin - Moderate irritant	Rabbit	_	24 hours 500	_
	Okan Wodorato arttant	I (GDDIC		milligrams	
	Skin - Moderate irritant	Rabbit	_	100 Percent	_
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	[-	100 1 ercent	
il-bulyi Acetate	Lyes - Moderate initalit	Nabbit	-	milligrams	_
	Skin - Moderate irritant	Rabbit		24 hours 500	
	Skiii - Moderate iimtant	Rappil	-		-
Ethyl 2 Ethovamenionata	Claim Milel invitement	Dabbit		milligrams	
Ethyl 3-Ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500	-
Mothyd Ethyd Matana	Claim Milel inviternat	Databit		milligrams	
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
	Oliver March	D 11.7		milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
D.D			ľ	milligrams	
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100	
	·			milligrams	
	Skin - Mild irritant	Rabbit	. -	500	-
				milligrams	
Methyl Isobutyl Ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	·			microliters	
	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
-			. [milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	_
				milligrams	
	Skin - Mild irritant	Human		72 hours 300	_
Titanium Dioxide	i okin - iviliu imiani	HIUHKAN	_		
Titanium Dioxide	Skin - Willa Imtant	Tiuman		Micrograms	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

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Section 11. Toxicological information

OSHA	IARC	NTP
-	3	-
-	3	_
-	2B	· · · · · · · · · · · · · · · · · · ·
-	2B	-
-	3	-
-	2B	-
	-	- 3 - 3 - 2B - 2B - 3

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs	
Acetone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Isopropyl Acetate	Category 3	Not applicable.	Narcotic effects	
Xylene mixed isomers	Category 3	Not applicable.	Respiratory tract irritation	
n-Butyl Acetate	Category 3	Not applicable.	Narcotic effects	
Methyl Ethyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
2-Propanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Methyl Isobutyl Ketone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	
Med. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects	

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs	
Acetone	Category 2	Not determined	Not determined	
Propane	Category 2	Not determined	Not determined	
Butane	Category 2	Not determined	Not determined	
Xylene mixed isomers	Category 2	Not determined	Not determined	
Methyl Ethyl Ketone	Category 2	Not determined	Not determined	
2-Propanol	Category 2	Not determined	Not determined	
Methyl Isobutyl Ketone	Category 2	Not determined	Not determined	
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined	
Ethylbenzene	Category 2	Not determined	Not determined	
Med. Aliphatic Hydrocarbon Solvent	Category 1	Not determined	Not determined	

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Section 11. Toxicological information

Aspiration hazard

Name	Result
Propane Butane Xylene mixed isomers Lt. Aliphatic Hydrocarbon Solvent Ethylbenzene Med. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1

Information on the likely

routes of exposure

: Not available.

Potential acute health effects

Eye contact

: Causes serious eve irritation.

Inhalation

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

dizziness. May cause respiratory irritation.

Skin contact

: Causes skin irritation.

Ingestion

Can cause central nervous system (CNS) depression. May be fatal if swallowed and

enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

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:

nausea or vomiting 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 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

: May damage the unborn child.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value		
Oral Dermal Inhalation (gases) Inhalation (vapors)	16075.3 mg/kg 5082.7 mg/kg 27197.7 ppm 116.7 mg/l		

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 6900 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
Isopropyl Acetate	Acute LC50 110 mg/l Marine water	Crustaceans - Artemia salina	48 hours
Xylene mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 μg/l Fresh water	Fish - Pimephales promelas	96 hours
Cellulose Nitrate	Acute EC50 579000 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
•	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
, , , , , , , , , , , , , , , , , , , ,	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-Propanol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
Methyl Isobutyl Ketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
-	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
•	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Amyl Acetate	Acute LC50 65 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella	96 hours

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Section 12. Ecological information

		subcapitata	
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp	48 hours
		Nauplii	
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 4200 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Butyl Benzyl Phthalate	Acute EC50 0.22 ppm Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 100 μg/l Fresh water	Algae - Pseudokirchneriella	96 hours
		subcapitata	
	Acute EC50 1000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3.69 mg/l Fresh water	Crustaceans - Moina macrocopa -	48 hours
		New born	
	Acute LC50 510 µg/l Marine water	Fish - Cymatogaster aggregata -	96 hours
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic EC10 0.57 mg/l Fresh water	Algae - Pseudokirchneriella	72 hours
		subcapitata - Exponential growth	
		phase	
	Chronic NOEC 0.17 mg/l Fresh water	Daphnia - Daphnia magna	21 days
T	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours

Persistence and degradability

Aquatic half-life	Photolysis	Biodegradability
_	-	Readily
_	- · · · · · · · · · · · · · · · · · · ·	Readily
-	- · · · · · · · · · · · · · · · · · · ·	Readily
_	-	Readily
-	-	Readily
_	-	Readily
_	-	Readily
	- - - -	- - - - -

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene mixed isomers	-	8.1 to 25.9	low
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Butyl Benzyl Phthalate		1693.25	high

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

: 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-		-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information		Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2).	-		Emergency schedules F-D, S U
	ERG No.	ERG No.	ERG No.		
,	126	126	126	·	

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 : Not available. to Annex II of MARPOL and the IBC Code

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.

Malaysia Inventory (EHS Register): Not determined.

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

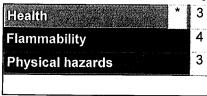
Philippines inventory (PICCS): Not determined.

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 AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	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 1B	Calculation method
ΓΟΧΙC TO REPRODUCTION (Fertility) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract rritation) - Category 3	Calculation method
SPECIFÍC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	Calculation method Calculation method

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Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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Section 16. Other information

UN = United Nations

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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