

SAFETY DATA SHEET

According to 29 CFR 1910.1200
MC100

Section 1. Identification

Product name : DUPLI-COLOR® METALCAST™ Metallic Base Coat
Ground Coat

Product code : MC100

Other means of identification : Not available.

Product type : Aerosol.

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

Paint or paint related material.

Manufacturer : Dupli-Color Products Company
101 W. Prospect Avenue
Cleveland, OH 44115


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

Product Information Telephone Number : (800) 247-3270

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 : AEROSOLS - Category 1
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
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 acute toxicity: 16.7% (oral), 26.2% (dermal), 56.7% (inhalation) 

GHS label elements

Hazard pictograms :



Signal word : Danger

Date of issue/Date of revision : 12/18/2025 **Date of previous issue** : 10/27/2025

Version : 29

1/23

MC100 DUPLI-COLOR® METALCAST™ Metallic Base Coat
Ground Coat

SHW-85-NA-GHS-US

Section 2. Hazards identification

- Hazard statements** : Extremely flammable aerosol. Pressurized container: may burst if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
- Precautionary statements**
- General** : 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, protective clothing and eye or face protection. 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 thoroughly after handling. Do not pierce or burn, even after use.
- Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. 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 advice or attention.
- Storage** : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 122 °F/50 °C. Store in a well-ventilated place. Keep container tightly closed.
- 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.
- Hazards identified when used** : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.
- CAS number/other identifiers**

Section 3. Composition/information on ingredients

Ingredient name	% by weight	Identifiers
Methyl Acetate	≥25 - ≤50	79-20-9
Propane	≥10 - ≤25	74-98-6
Isobutyl Acetate	≥10 - ≤25	110-19-0
Butane	≥10 - ≤25	106-97-8
Toluene	≤10	108-88-3
2-methoxy-1-methylethyl acetate	≤10	108-65-6
Aluminum	≤3	7429-90-5
Methyl Ethyl Ketoxime	≤0.3	96-29-7
Hydrotreated Heavy Petroleum Naphtha	≤0.3	64742-48-9
Light Aromatic Hydrocarbons	≤0.3	64742-95-6
Cobalt 2-Ethylhexanoate	≤0.3	136-52-7
Zirconium 2-Ethylhexanoate	≤0.3	22464-99-9

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 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.
- Skin contact** : Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. 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. 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.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

Section 4. First aid measures

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 : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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.

Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
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.
- Remark** : Flammable aerosol.

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. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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

Section 7. Handling and storage

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.

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 away 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. 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
Methyl Acetate	79-20-9	ACGIH TLV (United States, 1/2024) TWA 8 hours: 200 ppm. TWA 8 hours: 606 mg/m ³ . STEL 15 minutes: 250 ppm. STEL 15 minutes: 757 mg/m ³ . NIOSH REL (United States, 10/2020) TWA 10 hours: 200 ppm. TWA 10 hours: 610 mg/m ³ . STEL 15 minutes: 250 ppm. STEL 15 minutes: 760 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 610 mg/m ³ .
Propane	74-98-6	ACGIH TLV (United States, 1/2024) Oxygen depletion [asphyxiant], Explosive potential. NIOSH REL (United States, 10/2020) TWA 10 hours: 1000 ppm. TWA 10 hours: 1800 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 1000 ppm. TWA 8 hours: 1800 mg/m ³ .
Isobutyl Acetate	110-19-0	ACGIH TLV (United States, 1/2024) [Butyl acetates] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 150 ppm. TWA 10 hours: 700 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 700 mg/m ³ .
Butane	106-97-8	ACGIH TLV (United States, 1/2024) [Butane] Explosive potential. STEL 15 minutes: 1000 ppm.

Section 8. Exposure controls/personal protection

Toluene	108-88-3	<p>NIOSH REL (United States, 10/2020) TWA 10 hours: 800 ppm. TWA 10 hours: 1900 mg/m³.</p> <p>ACGIH TLV (United States, 1/2024) A4. Ototoxicant. TWA 8 hours: 20 ppm.</p> <p>OSHA PEL Z2 (United States, 2/2013) TWA 8 hours: 200 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm.</p> <p>NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 375 mg/m³. STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m³.</p>
2-methoxy-1-methylethyl acetate	108-65-6	<p>OARS WEEL (United States, 9/2024) TWA 8 hours: 50 ppm.</p>
Aluminum	7429-90-5	<p>ACGIH TLV (United States, 1/2024) [Aluminum, metal and insoluble compounds] A4. TWA 8 hours: 1 mg/m³. Form: Respirable fraction.</p> <p>NIOSH REL (United States, 10/2020) TWA 10 hours: 10 mg/m³. Form: Total. TWA 10 hours: 5 mg/m³. Form: Respirable fraction.</p> <p>OSHA PEL (United States, 5/2018) TWA 8 hours: 15 mg/m³ (as Al). Form: Total dust. TWA 8 hours: 5 mg/m³ (as Al). Form: Respirable fraction.</p>
Methyl Ethyl Ketoxime	96-29-7	<p>OARS WEEL (United States, 9/2024) Skin sensitizer. TWA 8 hours: 10 ppm.</p>
Hydrotreated Heavy Petroleum Naphtha Light Aromatic Hydrocarbons Cobalt 2-Ethylhexanoate	64742-48-9 64742-95-6 136-52-7	<p>None. None.</p> <p>ACGIH TLV (United States, 1/2024) [cobalt and inorganic compounds] A3. Skin sensitizer , Inhalation sensitizer. TWA 8 hours: 0.02 mg/m³ (as Co).</p>
Zirconium 2-Ethylhexanoate	22464-99-9	<p>ACGIH TLV (United States, 1/2024) [Zirconium and compounds] A4. TWA 8 hours: 5 mg/m³ (as Zr). STEL 15 minutes: 10 mg/m³ (as Zr).</p> <p>NIOSH REL (United States, 10/2020) [zirconium compounds] TWA 10 hours: 5 mg/m³ (as Zr). STEL 15 minutes: 10 mg/m³ (as Zr).</p> <p>OSHA PEL (United States, 5/2018) [Zirconium compounds] TWA 8 hours: 5 mg/m³ (as Zr).</p>

[Occupational exposure limits \(Canada\)](#)

Section 8. Exposure controls/personal protection

Ingredient name	CAS #	Exposure limits
Methyl acetate	79-20-9	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 250 ppm. TWA 8 hours: 200 ppm.</p> <p>CA British Columbia Provincial (Canada, 9/2024) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 200 ppm. TWAEV 8 hours: 606 mg/m³. STEV 15 minutes: 250 ppm. STEV 15 minutes: 757 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 606 mg/m³. OEL 15 minutes: 757 mg/m³. OEL 15 minutes: 250 ppm. OEL 8 hours: 200 ppm.</p>
Normal propane	74-98-6	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 1250 ppm. TWA 8 hours: 1000 ppm.</p> <p>CA British Columbia Provincial (Canada, 9/2024) Oxygen depletion [asphyxiant] , Explosive potential.</p> <p>CA Ontario Provincial (Canada, 6/2019) Oxygen depletion [asphyxiant] , Explosive potential.</p> <p>CA Quebec Provincial (Canada, 2/2024) Oxygen depletion [asphyxiant] , Explosive potential.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 1000 ppm.</p>
Isobutyl acetate	110-19-0	<p>CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 188 ppm. TWA 8 hours: 150 ppm.</p> <p>CA British Columbia Provincial (Canada, 9/2024) [butyl acetate, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) [butyl acetates] STEV 15 minutes: 150 ppm. TWAEV 8 hours: 50 ppm.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 150 ppm. OEL 8 hours: 713 mg/m³.</p>

Section 8. Exposure controls/personal protection

Butane	106-97-8	<p>CA Saskatchewan Provincial (Canada, 4/2021) [Aliphatic hydrocarbon gases, Alkane [C1-C4]] STEL 15 minutes: 1250 ppm. TWA 8 hours: 1000 ppm.</p> <p>CA Saskatchewan Provincial (Canada, 4/2021) [Butane] STEL 15 minutes: 1250 ppm. TWA 8 hours: 1000 ppm.</p> <p>CA British Columbia Provincial (Canada, 9/2024) [butane, all isomers] Explosive potential. STEL 15 minutes: 1000 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Butane, All isomers] Explosive potential. STEL 15 minutes: 1000 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 800 ppm. TWAEV 8 hours: 1900 mg/m³.</p> <p>CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 1000 ppm.</p>
toluene	108-88-3	<p>CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin. STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm.</p> <p>CA British Columbia Provincial (Canada, 9/2024) Repr. TWA 8 hours: 20 ppm.</p> <p>CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm.</p> <p>CA Quebec Provincial (Canada, 2/2024) Ototoxicant. TWAEV 8 hours: 20 ppm.</p> <p>CA Alberta Provincial (Canada, 3/2023) Absorbed through skin. OEL 8 hours: 50 ppm. OEL 8 hours: 188 mg/m³.</p>
Methyl Ethyl Ketoxime	96-29-7	<p>OARS WEEL (United States, 9/2024) Skin sensitizer. TWA 8 hours: 10 ppm.</p>
Cobalt 2-Ethylhexanoate	136-52-7	<p>CA Saskatchewan Provincial (Canada, 4/2021) [Cobalt and inorganic compounds] STEL 15 minutes: 0.06 mg/m³ (measured as Co). TWA 8 hours: 0.02 mg/m³ (measured as Co).</p> <p>CA British Columbia Provincial (Canada, 9/2024) [cobalt and inorganic compounds] Carc 2B. Skin sensitizer. TWA 8 hours: 0.02 mg/m³ (as Co). Form: Inhalable.</p> <p>CA Ontario Provincial (Canada, 6/2019) [Cobalt and inorganic compounds] TWA 8 hours: 0.02 mg/m³ (as Co).</p> <p>CA Quebec Provincial (Canada, 2/2024) [Cobalt elemental, and inorganic compounds] C3. Skin sensitizer , Inhalation</p>

Section 8. Exposure controls/personal protection

Zirconium 2-Ethylhexanoate	22464-99-9	<p>sensitizer.</p> <p>TWAEV 8 hours: 0.02 mg/m³ (as Co). Form: inhalable aerosol fraction.</p> <p>CA British Columbia Provincial (Canada, 9/2024) [zirconium and compounds] TWA 8 hours: 5 mg/m³ (as Zr). STEL 15 minutes: 10 mg/m³ (as Zr).</p> <p>CA Ontario Provincial (Canada, 6/2019) [Zirconium and compounds] STEL 15 minutes: 10 mg/m³ (as Zr). TWA 8 hours: 5 mg/m³ (as Zr).</p> <p>CA Quebec Provincial (Canada, 2/2024) [Zirconium and compounds] STEL 15 minutes: 10 mg/m³ (as Zr). TWA 8 hours: 5 mg/m³ (as Zr).</p> <p>CA Alberta Provincial (Canada, 3/2023) [Zirconium and compounds] OEL 8 hours: 5 mg/m³ (as Zr). OEL 15 minutes: 10 mg/m³ (as Zr).</p>
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Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Methyl Acetate	79-20-9	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 250 ppm.
Isobutyl Acetate	110-19-0	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 150 ppm.
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016) A4. TWA 8 hours: 20 ppm.
Cobalt 2-Ethylhexanoate	136-52-7	NOM-010-STPS-2014 (Mexico, 4/2016) [Cobalto y compuestos inorgánicos] A3. TWA 8 hours: 0.02 mg/m ³ (as Co).
Zirconium 2-Ethylhexanoate	22464-99-9	NOM-010-STPS-2014 (Mexico, 4/2016) [Circonio y compuestos] A4. TWA 8 hours: 5 mg/m ³ (as Zr). STEL 15 minutes: 10 mg/m ³ (as Zr).

Biological exposure indices (United States)

Ingredient name	Exposure indices
Toluene	ACGIH BEI (United States, 1/2024) BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
Cobalt 2-Ethylhexanoate	ACGIH BEI (United States, 1/2024) [cobalt and inorganic compounds including cobalt oxides] BEI: 15 µg/l, not combined with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek. BEI: Nonquantitative: Biological monitoring should be considered for this compound based on the review; however, a specific BEI®

Section 8. Exposure controls/personal protection

	could not be determined due to insufficient data., cobalt with tungsten carbide - cobalt [in urine]. Sampling time: end of shift at end of workweek.
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Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Toluene	<p>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)</p> <p>BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified.</p> <p>BEI: 1.6 g/g creatinine [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], hippuric acid [in urine]. Sampling time: at the end of the work shift.</p> <p>BEI: 0.5 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], o-cresol [in urine]. Sampling time: at the end of the work shift.</p>
Cobalt 2-Ethylhexanoate	<p>Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [cobalto]</p> <p>BEI: 1 µg/l [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; semi-quantitative.The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], cobalt [in blood]. Sampling time: at the end of the shift at the end of the work week.</p> <p>BEI: 15 µg/l [Basal level.The determinant</p>

Section 8. Exposure controls/personal protection

may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], cobalt [in urine]. Sampling time: at the end of the shift at the end of the work week.

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. Contaminated work clothing should not be allowed out of the workplace. 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 anti-static 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	: Liquid.
Color	: Silver.
Odor	: Not available.
Odor threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 5.3 (butyl acetate = 1)
Flammability	: Flammable aerosol.
Lower and upper explosion limit/flammability limit	: Lower: 1% Upper: 16%
Vapor pressure	: 101.3 kPa (760 mm Hg)
Relative vapor density	: 1.55 [Air = 1]
Relative density	: 0.78
Density	: 0.77 g/cm ³
Solubility(ies)	:

Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): <20.5 mm ² /s (<20.5 cSt)
Molecular weight	: Not applicable.
<u>Particle characteristics</u>	
Median particle size	: Not applicable.
<u>Aerosol product</u>	
Type of aerosol	: Spray
Heat of combustion	: 32.661 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.

Section 10. Stability and reactivity

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

Methyl Acetate	Rat - Oral - LD50 >5 g/kg Rabbit - Dermal - LD50 >5 g/kg
Isobutyl Acetate	Rat - Oral - LD50 13400 mg/kg Rabbit - Dermal - LD50 >17400 mg/kg
Butane	Rat - Inhalation - LC50 Vapor 658000 mg/m ³ [4 hours]
Toluene	Rat - Oral - LD50 636 mg/kg Rat - Inhalation - LC50 Vapor 49 g/m ³ [4 hours]
2-methoxy-1-methylethyl acetate	Rat - Oral - LD50 8532 mg/kg Rabbit - Dermal - LD50 >5 g/kg
Methyl Ethyl Ketoxime	Rat - Oral - LD50 930 mg/kg
Hydrotreated Heavy Petroleum Naphtha	Rat - Oral - LD50 >6 g/kg Rat - Inhalation - LC50 Vapor 8500 mg/m ³ [4 hours] <u>Toxic effects:</u> Lung, Thorax, or Respiration - Other changes
Light Aromatic Hydrocarbons	Rat - Oral - LD50 8400 mg/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes
Cobalt 2-Ethylhexanoate	Rabbit - Dermal - LD50 >5 g/kg <u>Toxic effects:</u> Skin After topical exposure - Primary irritation
Zirconium 2-Ethylhexanoate	Rat - Oral - LD50 1.22 g/kg <u>Toxic effects:</u> Behavioral - Ataxia Behavioral - Coma Rabbit - Dermal - LD50 >5 g/kg Rat - Oral - LD50 >5 g/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity)

Section 11. Toxicological information

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Result

Methyl Acetate

Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Isobutyl Acetate

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Toluene

Pig - Skin - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 250 uL

Rabbit - Skin - Mild irritant

Amount/concentration applied: 435 mg

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

Rabbit - Skin - Moderate irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result

Methyl Acetate

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Isobutyl Acetate

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

Toluene

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 0.5 minutes

Amount/concentration applied: 100 mg

Rabbit - Eyes - Mild irritant

Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 2 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 0.1 MI

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 uL

Methyl Ethyl Ketoxime

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 uL

Light Aromatic Hydrocarbons

Conclusion/Summary [Product] : Not available.

Section 11. Toxicological information

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Cobalt 2-Ethylhexanoate	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name

Result

Methyl Acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Isobutyl Acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Toluene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-methoxy-1-methylethyl acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Methyl Ethyl Ketoxime	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (upper respiratory tract) - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Section 11. Toxicological information

Hydrotreated Heavy Petroleum Naphtha	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
Light Aromatic Hydrocarbons	(Narcotic effects) - Category 3 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)

Product/ingredient name	Result
Toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Methyl Ethyl Ketoxime	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system) - Category 2

Aspiration hazard

Product/ingredient name	Result
Toluene	ASPIRATION HAZARD - Category 1
Hydrotreated Heavy Petroleum Naphtha	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

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.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
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

Section 11. Toxicological information

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 effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Isobutyl Acetate	13400	N/A	N/A	N/A	N/A
Butane	N/A	N/A	N/A	658	N/A
Toluene	N/A	N/A	N/A	49	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
Methyl Ethyl Ketoxime	100	1100	N/A	N/A	N/A
Hydrotreated Heavy Petroleum Naphtha	N/A	N/A	N/A	8.5	N/A
Light Aromatic Hydrocarbons	8400	N/A	N/A	N/A	N/A
Cobalt 2-Ethylhexanoate	1220	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Methyl Acetate

Result

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 28 to 32 days; Size: 17.5 mm; Weight: 0.087 g
320 mg/l [96 hours]
Effect: Mortality

Toluene

Acute - LC50 - Fresh water

Fish - Coho salmon, silver salmon - *Oncorhynchus kisutch* - Fry
Weight: 1 g
5500 µg/l [96 hours]
Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)
6000 µg/l [48 hours]
Effect: Intoxication

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*
Age: ≤24 hours
1 mg/l [21 days]
Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*
12.5 mg/l [72 hours]
Effect: Growth

Aluminum

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss* - Embryo
120 µg/l [96 hours]
Effect: Mortality

Chronic - NOEC - Fresh water

Aquatic plants - Coontail - *Ceratophyllum demersum*
Weight: 3.5 g
9 mg/l [3 days]
Effect: Enzymes

Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia magna*
38 mg/l [48 hours]
Effect: Mortality

Methyl Ethyl Ketoxime

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*
Age: 30 days; Size: 21.2 mm; Weight: 0.148 g
843 mg/l [96 hours]
Effect: Mortality

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Toluene	-	90	Low
Methyl Ethyl Ketoxime	-	2.5 to 5.8 [OECD 305 C]	Low
Hydrotreated Heavy Petroleum Naphtha	-	10 to 2500	High
Light Aromatic Hydrocarbons	-	10 to 2500	High
Cobalt 2-Ethylhexanoate	-	15600	High
Zirconium 2-Ethylhexanoate	-	2.96	Low

Mobility in soil

Soil/Water partition coefficient : 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.

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.

Section 14. Transport information

<p>Additional information</p>	<p>-</p> <p>ERG No.</p> <p>126</p> <p>Dependent upon container size, this product may ship under the Limited Quantity shipping exception.</p>	<p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).</p> <p>ERG No.</p> <p>126</p> <p>Dependent upon container size, this product may ship under the Limited Quantity shipping exception.</p>	<p>-</p> <p>ERG No.</p> <p>126</p> <p>Dependent upon container size, this product may ship under the Limited Quantity shipping exception.</p>	<p>-</p> <p>Dependent upon container size, this product may ship under the Limited Quantity shipping exception.</p>	<p>Emergency schedules F-D, S-U</p> <p>Dependent upon container size, this product may ship under the Limited Quantity shipping exception.</p>
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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 IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations :

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

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists

: **Australia inventory (AIIIC)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): 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.)

Health	*	3
Flammability		4
Physical hazards		3

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
AEROSOLS - Category 1	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

History

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Version : 29

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)
 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,

Section 16. Other information

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.