

SAFETY DATA SHEETaccording to the OSHA Hazard Communication Standard
- US**Mono-Coat® E331**

Version	Revision Date:	Date of last issue: 02/20/2023	Print Date:
1.1	11/25/2025	Date of first issue: 02/20/2023	11/27/2025

SECTION 1. IDENTIFICATION

Product name : Mono-Coat® E331

Manufacturer or supplier's detailsCompany name of supplier : Chem-Trend LP
1445 W McPherson Park Dr
PO Box 860, Howell MI 48844-0860
United States
+1 517 546 4520

E-mail address of person responsible for the SDS : SDS-NA@chemtrend.com

Emergency telephone number : +1 517 545 7070

Recommended use of the chemical and restrictions on use

Recommended use : Release agent

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**Flammable liquids : Category 2
Skin irritation : Category 2
Serious eye damage : Category 1
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)
Aspiration hazard : Category 1**GHS label elements**




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- Hazard pictograms :    
- Signal word : Danger
- Hazard statements : Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
- Supplemental Hazard Statements : Corrosive to the respiratory tract.
- Precautionary statements : **Prevention:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
Do NOT induce vomiting.
In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist to extinguish.
Storage:
Store in a well-ventilated place. Keep cool.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Light aliphatic naphtha	64742-49-0*	>= 30 - < 60	TSC
propan-1-ol	71-23-8*	>= 10 - < 30	TSC
ETHYL ALCOHOL	64-17-5*	>= 5 - < 10	TSC
3-butoxypropan-2-ol	5131-66-8*	>= 1 - < 5	TSC
Distillates (petroleum), hydrotreated light	64742-47-8*	>= 1 - < 5	TSC
Methanol	67-56-1*	>= 0.1 - < 1	TSC

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- If inhaled : Call a physician or poison control centre immediately.
Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Get medical attention immediately.
- If swallowed : Move the victim to fresh air.
If accidentally swallowed obtain immediate medical attention.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.

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Do NOT induce vomiting.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Aspiration hazard if swallowed - can enter lungs and cause damage.

Most important symptoms and effects, both acute and delayed : Aspiration may cause pulmonary oedema and pneumonitis.
Inhalation may provoke the following symptoms:
Unconsciousness
Dizziness
Drowsiness
Headache
Nausea
Tiredness
Skin contact may provoke the following symptoms:
Erythema
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
Corrosive to the respiratory tract.
Central nervous system depression
Can be absorbed through skin.
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not let product enter drains.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion products : Carbon oxides
Metal oxides

Further information : Standard procedure for chemical fires.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Cool containers/tanks with water spray.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Advice on safe handling : Use only in an area containing explosion proof equipment. Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. Smoking, eating and drinking should be prohibited in the application area.

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Wash hands and face before breaks and immediately after handling the product.
Ensure all equipment is electrically grounded before beginning transfer operations.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.
Do not use sparking tools.
Do not enter areas where used or stored until adequately ventilated.
Do not repack.
Do not re-use empty containers.
These safety instructions also apply to empty packaging which may still contain product residues.
Keep container closed when not in use.

Conditions for safe storage : Store in original container.
Keep container closed when not in use.
Keep in a cool place away from oxidizing agents.
Keep in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in accordance with the particular national regulations.
Keep in properly labelled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Light aliphatic naphtha	64742-49-0	TWA	500 ppm 2,000 mg/m ³	OSHA Z-1 (2007-01-01)
		TWA (Mist)	5 mg/m ³	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m ³	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m ³	NIOSH REL (2019-10-04)
propan-1-ol	71-23-8	TWA	100 ppm	ACGIH (2013-03-01)
		TWA	200 ppm 500 mg/m ³	NIOSH REL (2013-10-08)
		ST	250 ppm 625 mg/m ³	NIOSH REL (2013-10-08)

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		TWA	200 ppm 500 mg/m ³	OSHA Z-1 (1997-08-04)
ETHYL ALCOHOL	64-17-5	STEL	1,000 ppm	ACGIH (2013-03-01)
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL (2013-10-08)
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1 (1997-08-04)
Distillates (petroleum), hydrotreated light	64742-47-8	TWA (Mist)	5 mg/m ³	OSHA Z-1 (2018-03-15)
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH (2010-03-01)
		TWA (Mist)	5 mg/m ³	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m ³	NIOSH REL (2019-10-04)
Methanol	67-56-1	TWA	200 ppm	ACGIH (2013-03-01)
		STEL	250 ppm	ACGIH (2013-03-01)
		ST	250 ppm 325 mg/m ³	NIOSH REL (2013-10-08)
		TWA	200 ppm 260 mg/m ³	NIOSH REL (2013-10-08)
		TWA	200 ppm 260 mg/m ³	OSHA Z-1 (1997-08-04)

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure ceases)	15 mg/l	ACGIH BEI (2007-01-01)

Engineering measures : Use only in an area equipped with explosion proof exhaust ventilation.
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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Hand protection

Remarks : Protective gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : hydrocarbon-like

Odour Threshold : No data available

Melting point/ range : No data available

Boiling point/boiling range : 194 °F / 90 °C

Flammability : Flammability (solid, gas):
Not applicable

Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit : No data available

Flash point : 52 °F / 11 °C
Method: Pensky-Martens closed cup

Auto-ignition temperature : No data available

Self-ignition : No data available

Decomposition temperature : No data available

pH : Not applicable

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : < 20.5 mm²/s (104 °F / 40 °C)

Solubility(ies)
Water solubility : insoluble
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 26 hPa (68 °F / 20 °C)
(for a component of this mixture)

Density : ca. 0.77 g/cm³ (68 °F / 20 °C)

Relative density : 0.77 (68 °F / 20 °C)
Reference substance: Water
The value is calculated

Relative vapour density : No data available

Bulk density : No data available

Particle characteristics
Other information
Evaporation rate : No data available

Explosive properties : Not explosive

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Oxidizing properties : No data available
Sublimation point : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : Heat, flames and sparks.
Strong sunlight for prolonged periods.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Remarks: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity : Acute toxicity estimate: > 200 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Remarks: Respiration of solvent vapour may cause dizziness.
Irritating to respiratory system.

Symptoms: Inhalation may provoke the following symptoms:
Local irritation, Respiratory disorders, Dizziness, Drowsiness,
Vomiting, Fatigue, Vertigo, Central nervous system

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depression

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Symptoms: Redness, Local irritation

Components:

Light aliphatic naphtha:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

propan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): 1,870 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

ETHYL ALCOHOL:

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

3-butoxypropan-2-ol:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Methanol:

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 131.25 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is toxic after single contact with skin.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : This information is not available.

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Components:

Light aliphatic naphtha:

Result : Skin irritation

3-butoxypropan-2-ol:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : This information is not available.

Components:

propan-1-ol:

Result : Irreversible effects on the eye

ETHYL ALCOHOL:

Species : Rabbit
Result : Eye irritation

3-butoxypropan-2-ol:

Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Remarks : This information is not available.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

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Carcinogenicity

Based on available data, the classification criteria are not met.

Product:

Remarks : No data available

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

IARC OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

STOT - single exposure

May cause drowsiness or dizziness.
Corrosive to the respiratory tract.

Product:

Remarks : No data available

Components:

Light aliphatic naphtha:

Assessment : May cause drowsiness or dizziness.

propan-1-ol:

Assessment : May cause drowsiness or dizziness.

Distillates (petroleum), hydrotreated light:

Exposure routes : Inhalation
Assessment : May cause drowsiness or dizziness.

Methanol:

Assessment : Causes damage to organs.

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STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product:

Remarks : No data available

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

This information is not available.

Components:

Light aliphatic naphtha:

May be fatal if swallowed and enters airways.

Distillates (petroleum), hydrotreated light:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Components:

Light aliphatic naphtha:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

Components:

Light aliphatic naphtha:

Biodegradability : Remarks: No data available

propan-1-ol:

Biodegradability : Result: Readily biodegradable.

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ETHYL ALCOHOL:

Biodegradability : Result: Readily biodegradable.

3-butoxypropan-2-ol:

Biodegradability : Result: Readily biodegradable.

Distillates (petroleum), hydrotreated light:

Biodegradability : Result: rapidly biodegradable

Methanol:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Light aliphatic naphtha:

Bioaccumulation : Bioconcentration factor (BCF): 10 - 2,500

propan-1-ol:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0.2

ETHYL ALCOHOL:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: -0.14

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3-butoxypropan-2-ol:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 1.2

Distillates (petroleum), hydrotreated light:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

Methanol:

Bioaccumulation : Bioconcentration factor (BCF): 1.0

Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I
Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
B).

Additional ecological information : Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

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courses or the soil.
Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of waste product or used containers according to local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Light aliphatic naphtha, Ethanol)
Class : 3
Packing group : II
Labels : 3
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(Light aliphatic naphtha, Ethanol)
Class : 3
Packing group : II
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(Light aliphatic naphtha, Ethanol)
Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

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49 CFR

UN/ID/NA number : UN 1993
Proper shipping name : Flammable liquids, n.o.s.
(Light aliphatic naphtha, Ethanol)
Class : 3
Packing group : II
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Aspiration hazard
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

ETHYLBENZEN	100-41-4	< 0.1 %
E		

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

Methanol	67-56-1	>= 0.1 - < 1 %
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California Prop. 65

WARNING: This product can expose you to chemicals including ETHYLBENZENE, 4-methylpentan-2-one, which is/are known to the State of California to cause cancer, and Methanol, 4-methylpentan-2-one, Toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1
Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour
workday during a 40-hour workweek
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded
at any time during a workday
OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals;

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard
- US



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OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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