



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 083865

CATALYST FOR KLEENMOLD BASE 300

Date of the previous version: 2018-03-29

Revision Date: 2018-11-02

Version 2

1. IDENTIFICATION

Product identifier

Product name CATALYST FOR KLEENMOLD BASE 300

Other means of identification

Product Code(s) 083865

**Number
Substance/mixture** DDN
Mixture

Recommended use of the chemical and restrictions on use

Identified uses Lubricant. Industrial applications .

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA, Inc.
1201 Louisiana St. Suite 1800
Houston, TX 77002
Phone: 713-483-5000

Contact Point Technical/ HSEQ

E-mail Address ProductSafety@total.com***

Emergency telephone number

Company Phone Number +1 (908) 862-9300
Emergency telephone +1 866 928 0789 (24h/24, 7d/7)
+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral - **Category 4*****
Skin corrosion/irritation - **Category 1***** - **Subcategory A*****
Serious eye damage/eye irritation - **Category 1*****
Skin sensitization - **Category 1*****
Specific target organ systemic toxicity (repeated exposure) - **Category 2*****

Label elements

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**DANGER*******Hazard Statements**

Harmful if swallowed

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause damage to organs through prolonged or repeated exposure***

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should not be allowed out of the workplace

Do not eat, drink or smoke when using this product***

Precautionary Statements - Response

Specific treatment (see supplemental first aid instruction on this label)***

Eyes

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 or doctor/physician***

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention***

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician***

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting***

Precautionary Statements - Storage

Store locked up***

Precautionary Statements - Disposal

Dispose of contents/ container to an approved waste disposal plant***

Hazards not otherwise classified (HNOC)

None known

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Other information**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.***

Environmental properties

Should not be released into the environment. The product may form an oil film on the water surface that may stop the oxygen exchange.***

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS-No	Weight %
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	40-60

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures for different exposure routes**General advice**

Show this material safety data sheet to the doctor in attendance. Immediate medical attention is required. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required.***

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Immediate medical attention is required.***

Inhalation

Move to fresh air. Immediate medical attention is required. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.***

Ingestion

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Remove from exposure, lie down.***

Protection of First-aiders

Use personal protective equipment. Avoid contact with skin, eyes and clothing.***

Most important symptoms/effects, acute and delayed**Skin contact**

CAUSES SKIN BURNS. May cause an allergic skin reaction.***

Eye contact

Causes serious eye damage.

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Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	Harmful if swallowed. May cause damage to organs. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.***
Symptoms	Redness. Asthma-like and/ or skin allergy-like symptoms. Difficulty breathing. Coughing and/ or wheezing. Burning. Rashes. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

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

Notes to physician May cause sensitization of susceptible persons. Treat symptomatically.***

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Carbon dioxide (CO ₂). ABC powder. Alcohol-resistant foam. Water spray.***
Uniform Fire Code	Sensitizer: Solid Other Health Hazard: Target Organ Toxin--Solid
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.***
<u>Special Hazard</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.***
Hazardous Combustion Products	Nitrogen oxides (NO _x). Ammonia.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective Equipment and Precautions for Firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.***
Other information	Refer to protective measures listed in Sections 7 and 8.***
<u>Environmental precautions</u>	

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General Information

Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.***

Methods and material for containment and cleaning up

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Powdered material may form explosive dust-air mixtures. 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). Keep in suitable, closed containers for disposal.***

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.***

Hygiene measures

Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Do not wash off with: Fuel. Solvent. Abrasive. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.***

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from food, drink and animal feeding stuffs. Keep in a bonded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.***

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Materials to Avoid Strong oxidizing agents. Acids, Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.***

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Ingredients with workplace control parameters

Exposure controls

Engineering Measures Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Storage and handling temperatures should be kept as low as feasible to minimize fume production. Handling procedures should minimize dust production. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment. Apply technical measures to comply with the occupational exposure limits.***

Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal protective equipment is considered.***

Eye/face protection If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Impermeable butyl rubber gloves. Nitrile rubber. Neoprene gloves. Impermeable gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing

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should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection. Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Do not wash off with:.. Fuel. Solvent. Abrasive. Avoid extended and repeated contact with the skin as this may cause skin conditions, which may also be aggravated by minor injuries or by contact with soiled clothing. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.***

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance			
Color			paste
Physical State @20°C			black
Odor			Solid/liquid mix
Odor Threshold			amine-like
			No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	>7		
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	> 110 °C > 230 °F		
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure	2 hPa	@ 25 °C	
Vapor density		No information available	
Relative density	1.25	@ 25 °C	
Density	1.25 g/cm3	@ 25 °C	
Water solubility		No information available	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic		Not applicable	
Explosive properties	No information available		
Oxidizing Properties	No information available		
Possibility of hazardous reactions	See section 10		
<u>Other information</u>			

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Freezing Point

No information available

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	No information available.
<u>Chemical stability</u>	Stable under recommended storage conditions.***
<u>Possibility of hazardous reactions</u>	Contact with acids liberates very toxic gas. None under normal processing.***
<u>Conditions to avoid</u>	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Take precautionary measures against static discharges. Strong oxidizing agents. Heating can release hazardous gases. Exposure to air or moisture over prolonged periods.***
<u>Incompatible materials</u>	Strong oxidizing agents. Acids, Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.***
<u>Hazardous Decomposition Products</u>	Thermal decomposition can lead to release of irritating gases and vapors. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.***

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

<u>Principle Routes of Exposure</u>	Inhalation, Ingestion, Eye contact, Skin contact.
<u>Symptoms</u>	Redness. Asthma-like and/ or skin allergy-like symptoms. Difficulty breathing. Coughing and/ or wheezing. Burning. Rashes. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
<u>Skin contact</u>	CAUSES SKIN BURNS. May cause an allergic skin reaction.***
<u>Eye contact</u>	Causes serious eye damage.
<u>Inhalation</u>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
<u>Ingestion</u>	Harmful if swallowed. May cause damage to organs. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.***

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity - Product Information

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Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Oral ATEmix (oral)	Harmful if swallowed*** 1052*** mg/kg***
Dermal	Not classified based on available data***
Inhalation	Not classified based on available data***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	LD50 625 mg/kg (Rat)	LD50 2110 mg/kg (Rabbit)	

Skin corrosion/irritation	Causes severe burns.***
Serious eye damage/eye irritation	Risk of serious damage to eyes.***
Sensitization	May cause sensitization by skin contact. May cause an allergic skin reaction.***
Carcinogenicity	This product is not classified carcinogenic.

Mutagenicity	This product is not classified as mutagenic.
Germ Cell Mutagenicity	Not classified based on available data.***
Reproductive toxicity	This product does not present any known or suspected reproductive hazards.
Target Organ Effects (STOT)	No information available.***
STOT - single exposure	Not classified based on available data.***
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.***
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).***
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long lasting effects***

Acute aquatic toxicity - Product Information

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	EC50 (72h) 140 - 200 mg/l (Algae)	LC50 (96h) 46 - 100 mg/l (leuciscus idus) LC50 (96h) 103 mg/l	EC50 (48h) 6.84 mg/l (Daphnia magna)	

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		(Pimephales promelas)		
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Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
4,4'-Methylenebis(cyclohexyl amine) 1761-71-3		NOEC(21d) 4 mg/l (Daphnia magna - OECD 211)		

Effects on terrestrial organisms No information available.

Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

General Information No information available.

Soil No information available

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations.***

Contaminated packaging Do not re-use empty containers.***

US EPA Waste Number D002***

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California Hazardous Waste Codes 221***

14. TRANSPORT INFORMATION

DOT

UN/ID No	UN2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Hazard class	8
Packing Group	II
Special Provisions	B2, IB2, T11, TP1, TP27
Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine)), 8, II***
Emergency Response Guide Number	153
Special Provisions	274

ICAO/IATA

UN/ID No	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard class	8
Packing Group	II
ERG Code	8L
Special Provisions	A3, A803
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4,4'-Methylenebis(cyclohexylamine)), 8, II
Excepted Quantity	E2
Limited quantity	0.5 L

IMDG/IMO

UN/ID No	UN2735
Proper shipping name	Amines, liquid, corrosive, n.o.s.
Hazard class	8
Packing Group	II
EmS No.	F-A, S-B
Special Provisions	274
Marine pollutant	Yes***
Description	UN2735, Amines, liquid, corrosive, n.o.s. (4,4'-Methylenebis(cyclohexylamine)), 8, II, Marine Pollutant
Excepted Quantity	E2
Limited quantity	1 L

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ADR/RID

UN/ID No	UN2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S.
Hazard class	8
Packing Group	II
Classification Code	C7
Tunnel Restriction Code	(E)
Special Provisions	274
Description	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebis(cyclohexylamine)), 8, II, Environmentally hazardous
Limited quantity	1 L
Environmental hazard	Yes***

15. REGULATORY INFORMATION

International Inventories	All the substances contained in this product are listed or exempted from listing in the following inventories: U.S.A. (TSCA) Japan (ENCS) Australia (AICS)
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U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes***
Chronic Health Hazard	Yes***
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

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Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois
Graphite 7782-42-5	X	X	X	
glycerol 56-81-5	X	X	X	

16. OTHER INFORMATION

NFPA	Health Hazard 3***	Flammability 1***	Instability 0	Special hazards -
HMIS	Health Hazard 3***	Flammability 1***	Physical Hazard 0	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2018-11-02

Revision Note *** Indicates updated section***

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

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UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

Legend

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet

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