

SAFETY DATA SHEET

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Version 3.0 Revision Date: 10/19/2022 SDS Number: 215000001104 Date of last issue: 08/04/2021
Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : 146
Product code : 000000000002469859

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Colorants (pigments and dyestuffs), inorganic

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A
Carcinogenicity : Category 1A
Specific target organ toxicity : Category 2
- repeated exposure (Inhalation)

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Causes serious eye irritation.

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Precautionary Statements :
May cause cancer.
May cause damage to organs through prolonged or repeated exposure if inhaled.

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.

Storage:
Store locked up.

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

Chemical name	CAS-No.	Concentration (% w/w)
mica	12001-26-2	>= 5 - < 10
Quartz (SiO ₂)	14808-60-7	>= 1 - < 5
aluminium oxide	1344-28-1	>= 1 - < 5
calcium oxide	1305-78-8	>= 1 - < 5
magnesium oxide	1309-48-4	>= 1 - < 5

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

SECTION 4. FIRST AID MEASURES

If inhaled : Take the victim into fresh air.
Get medical attention if symptoms occur.

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If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

If unconscious, place in recovery position and get medical attention immediately.

Loosen tight clothing such as a collar, tie, belt or waistband.

- In case of skin contact : No special actions required.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
If easy to do, remove contact lens, if worn.
Continue to rinse for at least 10 minutes.
Get medical attention if symptoms appear.
- If swallowed : Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

- Symptoms : May cause irritation with symptoms of reddening and itching.
Eye: May cause irritation with symptoms of reddening, tearing and stinging.
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Effects : May cause mechanical irritation (abrasion).
- Effects : Causes serious eye irritation.
May cause cancer.
May cause damage to organs through prolonged or repeated exposure if inhaled.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : No information available.
- Hazardous combustion products : The product itself does not burn.
Carbon dioxide (CO₂)
Carbon monoxide
Metal oxides
- Further information : Standard procedure for chemical fires.
Promptly isolate the scene by removing all persons from the

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vicinity of the incident if there is a fire.
 Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
 Keep unnecessary and unprotected personnel from entering.
 Avoid breathing dust.
 Use personal protective equipment.
 Avoid dust formation.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up : Move containers from spill area.
 Vacuum or sweep up material and place in a designated, labeled waste container.
 Dispose of wastes in an approved waste disposal facility.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
 Smoking, eating and drinking should be prohibited in the application area.
 Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage : Store in accordance with local regulations.
 Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
 Keep containers tightly closed in a dry, cool and well-ventilated place.
 Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
mica	12001-26-2	TWA (Respirable particulate matter)	0.1 mg/m ³	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
Quartz (SiO ₂)	14808-60-7	TWA (Respirable dust)	0.05 mg/m ³	OSHA Z-1
		TWA (respirable)	10 mg/m ³ / %SiO ₂ +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO ₂ +5	OSHA Z-3
aluminium oxide	1344-28-1	TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
calcium oxide	1305-78-8	TWA (Respirable particulate matter)	1 mg/m ³ (Aluminum)	ACGIH
		TWA	2 mg/m ³	ACGIH
magnesium oxide	1309-48-4	TWA	5 mg/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (fume, total particulate)	15 mg/m ³	OSHA Z-1

Engineering measures : This information is not available.

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline.

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NIOSH approved, air-purifying particulate respirator with N-95 filters.

Hand protection
Material : Gloves

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : General industrial hygiene practice.
When using do not eat, drink or smoke.
Wash face, hands and any exposed skin thoroughly after handling.
Wash contaminated clothing before reusing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid, powder

Physical state : solid

Color : red

Odor : odorless

Odor Threshold : No data available

pH : No data available

Melting point/range : 1,832 °F / 1,000 °C

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative density : No data available

Density : No data available

Bulk density : 300 - 1,000 kg/m³

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : No data available

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

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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 chemically stable.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

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Acute toxicity

Not classified based on available information.

Components:

mica:

Acute oral toxicity : LD50 (Mammal - species unspecified): > 15,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

aluminium oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

calcium oxide:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 425
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

magnesium oxide:

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

Skin corrosion/irritation

Not classified based on available information.

Components:

mica:

Species : Rabbit
Result : No skin irritation

aluminium oxide:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

calcium oxide:

Result : Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Components:**mica:**

Species : Rabbit
Result : No eye irritation

aluminium oxide:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

calcium oxide:

Result : Risk of serious damage to eyes.

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:**mica:**

Routes of exposure : Skin contact
Species : Guinea pig
Result : Did not cause sensitization on laboratory animals.

aluminium oxide:

Test Type : Draize Test
Routes of exposure : Skin contact
Species : Guinea pig
Result : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:**mica:**

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mammalian-Animal
Result: negative

aluminium oxide:

Genotoxicity in vitro : Test system: Bacteria

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Method: OECD Test Guideline 471
Result: negative

Carcinogenicity

May cause cancer.

IARC Group 1: Carcinogenic to humans
Quartz (SiO₂) 14808-60-7
(Silica dust, crystalline)

OSHA

NTP Known to be human carcinogen
Quartz (SiO₂) 14808-60-7
(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

Components:**calcium oxide:**

Effects on fetal development : Species: Rat
Application Route: Oral
Duration of Single Treatment: 10 d
Developmental Toxicity: NOAEL: \geq 680 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic potential.
GLP: no

Species: Mouse
Application Route: Oral
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: \geq 440 mg/kg body weight
Developmental Toxicity: NOAEL: \geq 440 mg/kg body weight
Method: OECD Test Guideline 414
GLP: no

STOT-single exposure

Not classified based on available information.

Components:**aluminium oxide:**

Assessment : May cause respiratory irritation.

calcium oxide:

Assessment : May cause respiratory irritation.

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magnesium oxide:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Components:

mica:

Routes of exposure : Inhalation
Target Organs : Lungs
Assessment : May cause damage to organs through prolonged or repeated exposure.
Remarks : Prolonged inhalation of excessive levels of dust may cause pneumoconiosis.

Quartz (SiO₂):

Routes of exposure : Inhalation
Assessment : May cause damage to organs through prolonged or repeated exposure.

aluminium oxide:

Routes of exposure : Inhalation
Target Organs : Lungs
Assessment : May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Remarks : Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is generally a slowly developing fibrotic disease as symptoms are usually delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis.

Components:

magnesium oxide:

Species : Rat
NOAEL : < 1,120 mg/m³
Application Route : Inhalation
Exposure time : 29 d

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Remarks : Chronic toxicity

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

aluminium oxide:

- Toxicity to fish : LC50 (Salmo trutta (brown trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

calcium oxide:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 50.6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 49.1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes
- Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (microalgae)): 79.22 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes
- EC50 (Pseudokirchneriella subcapitata (microalgae)): 184.57 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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GLP: yes

Toxicity to microorganisms : EC10 (activated sludge): 300.4 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes

magnesium oxide:

Toxicity to fish : LC50 (Fish): > 10,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h

Persistence and degradability

Components:

mica:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

aluminium oxide:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

magnesium oxide:

Biodegradability : Result: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classi-

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Waste from residues : fied as a hazardous waste. (40 CFR 261.20-24)
: The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes.

Not dangerous cargo, Risk of serious damage to eyes, Keep separated from foodstuffs

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

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

: Carcinogenicity
Specific target organ toxicity (single or repeated exposure)
Serious eye damage or eye irritation

SARA 313

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

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aluminium oxide 1344-28-1 >= 1 - < 5 %

US State Regulations

Massachusetts Right To Know

mica	12001-26-2	>= 5 - < 10
Quartz (SiO ₂)	14808-60-7	>= 1 - < 5
aluminium oxide	1344-28-1	>= 1 - < 5
calcium oxide	1305-78-8	>= 1 - < 3
magnesium oxide	1309-48-4	>= 1 - < 5
Phosphorus Pentoxide	1314-56-3	< 0.1
Sulfur trioxide	7446-11-9	< 0.1

Pennsylvania Right To Know

Hematite	1317-60-8	> 1
Dolomite (CaMg(CO ₃) ₂)	16389-88-1	> 1
mica	12001-26-2	>= 5 - < 10
Quartz (SiO ₂)	14808-60-7	>= 1 - < 5
aluminium oxide	1344-28-1	>= 1 - < 5
calcium oxide	1305-78-8	>= 1 - < 5
magnesium oxide	1309-48-4	>= 1 - < 5
Manganese Oxide	1313-13-9	< 1
Phosphorus Pentoxide	1314-56-3	< 1
Sulfur trioxide	7446-11-9	< 1

California Prop. 65

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

WARNING: This product can expose you to chemicals including Quartz (SiO₂), titanium dioxide, Sulfur trioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Potential exposure to some or all of the California Proposition 65 chemicals in this product have been determined to be below the No Significant Risk Level (NSRL).

TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

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

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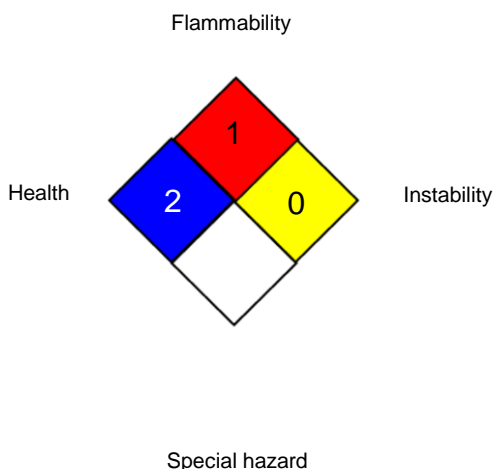


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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA : 8-hour, time-weighted average
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / 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

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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; 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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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.