

EPIPHOS (20 L)

Version 2.0 Revision Date: 24.03.2025 SDS Number: 000000000050629108 Date of last issue: 07.03.2025
Date of first issue: 07.03.2025

Section 1: Identification

Product name : EPIPHOS (20 L)

Product code : 000000000050629108

Manufacturer or supplier's details

BASF Coatings and Chemetall New
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Level 1, 527A Rosebank Road, Avondale
Auckland 1026
New Zealand
Telephone: 008 837 464, +64 9 820 3888
Telefax number: +64 9 820 3979
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Emergency contact

Telephone: +64 9 255-4300
E-mail address: ProductSafety_EC_APAC@basf.com, nzadmin@basf.com

Emergency telephone : National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24 hour
advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If
calling from outside New Zealand)

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Recommended use of the chemical and restrictions on use

Recommended use : Restricted to professional users.
Restrictions on use : Uses other than recommended

Section 2: Hazard identification**GHS Classification**

Skin corrosion/irritation : Category 2

Serious eye damage/eye
irritation : Category 2

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ
toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ
toxicity - repeated
exposure : Category 2 (Kidney, Liver, Central nervous system)

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Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (Kidney, Liver, Blood, Central nervous system, lung)

Aspiration hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

H373 May cause damage to organs (Kidney, Liver, Blood, Central nervous system, lung) through prolonged or repeated exposure if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist or vapors.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep

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container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Chemical nature : organic solvent
inorganic acids
polymers

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
2-butoxyethanol	2-butoxyethanol	111-76-2	>= 25 -< 50
1,2,4-trimethylbenzene	1,2,4-trimethylbenzene	95-63-6	>= 15 -< 20
Bisphenol-A-Epoxy resin	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-	25036-25-3	>= 7 -< 10

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	methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]		
dichloromethane	dichloromethane	75-09-2	>= 7 -< 10
mesitylene	mesitylene	108-67-8	>= 3 -< 5
xylene	xylenes	1330-20-7	>= 3 -< 5
cumene	cumene	98-82-8	>= 3 -< 5
phosphoric acid	orthophosphoric acid (Solution)	7664-38-2	>= 2 -< 2.5

Section 4: First-aid measures

General advice

- : First aid personnel should pay attention to their own safety.
 Immediately remove contaminated clothing.
 In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product.
 Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.
 Never give anything by mouth to an unconscious person.
 Keep patient warm and at rest.

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- If inhaled : If breathed in, move person into fresh air.
Call a physician or poison control center immediately.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : If symptoms persist, call a physician.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Do NOT use solvents or thinners.
- In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Call a physician immediately.
If easy to do, remove contact lens, if worn.
- If swallowed : Do not induce vomiting due to aspiration hazard.
Keep at rest.
If symptoms persist, call a physician or Poison Control Center immediately.
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.
Causes skin irritation.

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May cause an allergic skin reaction.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

When inhaled (e.g. during vomiting) risk of pulmonary oedema and/or pneumonia.

Risk of product entering the lungs on vomiting after ingestion.

Notes to physician : No known specific antidote.
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media : Water spray jet
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

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Unsuitable extinguishing : High volume water jet
media

Specific hazards during : Fire will produce dense black smoke containing
fire fighting hazardous combustion products (see section 10).

Hazardous combustion : Chlorine compounds
products

Advice for firefighters

Specific extinguishing : In the event of fire, cool tanks with water spray.
methods
Fire residues and contaminated fire extinguishing
water must be disposed of in accordance with local
regulations.
Collect contaminated fire extinguishing water
separately. This must not be discharged into drains.

Special protective : Appropriate breathing apparatus may be required.
equipment for fire-
fighters

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Hazchem Code : 2Z

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures : Avoid breathing vapours.
Keep away from sources of ignition.
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
For non-emergency personnel:
For emergency responders:
Use personal protective equipment.
Ensure adequate ventilation, especially in confined areas.

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Ensure adequate ventilation.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Section 7: Handling and storage

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame.
The relevant fire protection measures should be noted.

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8.
Comply with the health and safety at work laws.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

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- Handle in accordance with good industrial hygiene and safety practice.
- Do not breathe vapors or spray mist.
- Hygiene measures : Remove contaminated clothing immediately and dispose of safely.
- Wash hands before breaks and at the end of workday.
- Keep away from food, drink and animal feedingstuffs.
- Further information on storage conditions : Avoid direct sunlight.
- Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel.
- Always keep in containers of same material as the original one.
- Observe label precautions.
- Keep in a dry, cool and well-ventilated place.
- Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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Packaging material : Suitable material: High density polyethylene (HDPE),
 Low density polyethylene (LDPE),
 Polyethylenetherephtalate (PET), Polypropylene, Carbon
 steel (Iron), tinned carbon steel (Tinplate)

Section 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-butoxyethanol	111-76-2	WES-TWA	25 ppm 121 mg/m ³	NZ OEL
	Further information: Skin absorption			
		TWA	20 ppm	ACGIH
1,2,4-trimethylbenzene	95-63-6	WES-TWA	25 ppm 123 mg/m ³	NZ OEL
		TWA	10 ppm	ACGIH
dichloromethane	75-09-2	WES-TWA	50 ppm 174 mg/m ³	NZ OEL
	Further information: Suspected human carcinogen			

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		TWA	50 ppm	ACGIH
mesitylene	108-67-8	WES-TWA	25 ppm 123 mg/m ³	NZ OEL
		TWA	10 ppm	ACGIH
xylene	1330-20-7	WES-TWA	50 ppm 217 mg/m ³	NZ OEL
Further information: Ototoxin				
		TWA	20 ppm	ACGIH
cumene	98-82-8	WES-STEL	75 ppm 375 mg/m ³	NZ OEL
Further information: Skin absorption				
		WES-TWA	25 ppm 125 mg/m ³	NZ OEL
Further information: Skin absorption				
		TWA	5 ppm	ACGIH
phosphoric acid	7664-38-2	WES-TWA	1 mg/m ³	NZ OEL
		TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH

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Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g creatinine	ACGIH BEI
dichloromethane	75-09-2	Dichloromethane	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/l	ACGIH BEI
xylene	1330-20-7	Methylhippuric acid	Urine	End of shift	1.5 g/l	NZ BEI
		Methylhippuric acids	Urine	End of shift (As	1.5 g/g creatinine	ACGIH BEI

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				soon as possible after exposure ceases)		
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Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Filter type : Organic gas and low boiling vapor type

Hand protection

Material : Nitrile rubber

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. nitrile rubber (NBR) - 0.4 mm coating thickness fluoroelastomer (FKM) - 0.7 mm coating thickness Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1 The protection glove should be tested for its specific suitability (e.g. mechanical

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strength, product compatibility, anti-static properties).
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Preventive skin protection

- Eye protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
- Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
- Protective measures : Do not breathe vapour/spray.
- Eye wash fountains and safety showers must be easily accessible.
- If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.
- Avoid contact with the skin, eyes and clothing.
- Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

- Appearance : liquid
- Color : colorless
- Odor : No data available
- Odor Threshold : not determined

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pH : substance/mixture is non-soluble (in water)
substance/mixture is non-polar/aprotic

Melting point/ range : not determined

Boiling point/boiling range : > 40 °C
Method: calculated

Flash point : Not applicable

Evaporation rate : not determined

Flammability : Does not sustain combustion.

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapor pressure : not determined (20 °C)
not determined (50 °C)

Relative vapor density : Heavier than air.

Density : 0.940 g/cm³ (20 °C)

Solubility(ies)
Water solubility : not determined

Partition coefficient: n- : not applicable for mixtures

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octanol/water
Autoignition temperature : not determined

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, kinematic : 6 mm²/s (23 °C)
not determined (40 °C)

Flow time : < 30 s (23 °C)
Cross section: 3 mm
Method: ISO 2431

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-heating substances : The substance or mixture is not classified as self heating.

Metal corrosion rate : Not corrosive to metals.

Section 10: Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No hazardous reactions when stored and handled according to instructions.

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- Conditions to avoid : Avoid direct sunlight.
When exposed to naked flames or hot surfaces (above 120 °C) the product will decompose, forming highly irritating substances.
- Incompatible materials : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Hazardous decomposition products : No decomposition if stored and applied as directed.
-

Section 11: Toxicological information**Acute toxicity**

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

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Components:**2-butoxyethanol:**

Acute oral toxicity : LD50 (guinea pig): 1,200 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Chronic toxicity**Germ cell mutagenicity**

Not classified due to lack of data.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Kidney, Liver, Central nervous system) through prolonged or repeated exposure.

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May cause damage to organs (Kidney, Liver, Blood, Central nervous system, lung) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Section 12: Ecological information**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential**Components:****2-butoxyethanol:**

Partition coefficient: n- : log Pow: 0.81 (25 °C)

octanol/water

GLP: no

1,2,4-trimethylbenzene:

Partition coefficient: n- : log Pow: 3.63 (25 °C)

octanol/water

dichloromethane:

Partition coefficient: n- : log Pow: 1.25 (20 °C)

octanol/water

pH: 7

Remarks: Information taken from reference works and the literature.

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mesitylene:

Partition coefficient: n- octanol/water : log Pow: 3.42

xylene:

Partition coefficient: n- octanol/water : log Pow: 3.12 - 3.20 (25 °C)

GLP: no

Remarks: Information taken from reference works and the literature.

cumene:

Partition coefficient: n- octanol/water : log Pow: 3.55 (23 °C)

Method: OECD Test Guideline 107

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal considerations**Disposal methods**

Waste from residues : Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

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Contaminated packaging : Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC
Packaging that is not properly emptied must be disposed of as the unused product.

Section 14: Transport information**International Regulations****UNRTDG**

UN number : UN 1593
Proper shipping name : DICHLOROMETHANE
Class : 6.1
Packing group : III
Labels : 6.1
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1593
Proper shipping name : DICHLOROMETHANE
Class : 6.1
Packing group : III
Labels : Toxic
Packing instruction (cargo aircraft) : 663

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Packing instruction : 655
(passenger aircraft)

IMDG-Code

UN number : UN 1593
Proper shipping name : DICHLOROMETHANE
Class : 6.1
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no

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

Not applicable for product as supplied.

Domestic regulation**NZS 5433**

UN number : UN 1593
Proper shipping name : DICHLOROMETHANE
Class : 6.1
Packing group : III
Labels : 6.1
Hazchem Code : 2Z
Marine pollutant : no

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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.

ERG Code : 160

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

HSR002531

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

Section 16: Other information

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Further information

Other information : For multi-pack systems observe material safety data

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sheets of all components.
Restricted to professional users.

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NZ BEI : New Zealand. Biological Exposure Indices

NZ OEL : New Zealand. Workplace Exposure Standards for
Atmospheric Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NZ OEL / WES-TWA : Workplace Exposure Standard - Time Weighted average

NZ OEL / WES-STEEL : Workplace Exposure Standard - Short-Term Exposure
Limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; IARC - International Agency for Research on Cancer; IATA - International Air Transport

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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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - 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; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 a 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.

NZ / EN