

**BYK-ET 3000**

Product code: 000000000000158383

Version 4.1 SDS\_APJ\_MY

Revision Date 29.09.2025

Print Date 01.10.2025

**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : BYK-ET 3000

Recommended use : Wetting & Dispersing Additive

Restrictions on use : For industrial use only.

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH

Address : Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

Emergency telephone : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2

Reproductive toxicity : Category 1B

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

Hazardous to the aquatic environment - chronic hazard : Category 2

**Label elements**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H360 May damage fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

**Response:**

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

P391 Collect spillage.

**Other hazards which do not result in classification**

None known.

**SECTION 3: Composition and information of the ingredients of the hazardous chemical**

Substance / Mixture : Mixture  
 Chemical nature : Solution of modified styrene maleic acid copolymer

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
N-methyl-2-pyrrolidone	872-50-4	>= 50 -<= 100
2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts)	1431957-88-8	>= 12.5 -< 20
2-pyrrolidone	616-45-5	>= 0.25 -< 0.5
Pyrrolidinone, dimethyl-	60544-40-3	>= 0.25 -< 0.5
N-methyl-2-pyrrolidone	872-50-4	>= 50 -<= 100
2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts)	1431957-88-8	>= 12.5 -< 20
2-pyrrolidone	616-45-5	>= 0.3 -< 0.5
Pyrrolidinone, dimethyl-	60544-40-3	>= 0.25 -< 0.3

**SECTION 4: First aid measures**

General advice : Move out of dangerous area.  
 Show this material safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.

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In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	None known.

### SECTION 5: Firefighting measures

#### Extinguishing media

Suitable extinguishing media	:	Foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	:	High volume water jet

#### Physicochemical hazards arising from the chemical

Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NO <sub>x</sub> )

#### Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment.
Environmental precautions	:	Prevent product from entering drains. 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	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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### SECTION 7: Handling and storage

#### Handling

##### Precautions for safe handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

#### Storage

##### Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

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

### SECTION 8: Exposure controls and personal protection

#### Control parameters

Contains no substances with occupational exposure limit values.

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
N-methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

#### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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## Hand protection

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : 0.7 mm

## Remarks

: Wear suitable gloves.

## Respiratory protection

: In the case of vapor formation use a respirator with an approved filter.

## Hygiene measures

: When using do not eat or drink.

: When using do not smoke.

: Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties**

Appearance : liquid

Color : light yellow

Odor : characteristic

Odor Threshold : No data available

pH : 6 (20 °C)  
Concentration: 10 %  
Method: Universal pH-value indicator

Melting point/freezing point : < 0 °C  
Method: derived

Boiling point/boiling range : > 200 °C  
Method: derived

Flash point : 87 °C  
Method: 49 (Pensky-Martens)

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 0.32 hPa (20 °C)  
Method: derived

Relative vapor density : No data available

Relative density : No data available

Density : 1.0696 g/cm<sup>3</sup> (20 °C, 1,013 hPa)  
Method: 4 (20°C oscillating U-tube)

Solubility(ies)

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Water solubility	:	soluble (20 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	> 200 °C Method: M0062 (Analytics Wesel)
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	150 mPa.s ( 20.0 °C) Method: P/K 20°C
Viscosity, kinematic	:	No data available
Surface tension	:	No data available

**SECTION 10: Stability and reactivity**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents Strong bases
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

**Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

**Components:****N-methyl-2-pyrrolidone:**

Acute oral toxicity	:	LD50 (Rat): 4,150 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity	:	LC50 (Rat): > 5.1 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

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GLP: No information available.

2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts):

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

**2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): > 5,000.000000 mg/kg

**N-methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: No information available.

2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts):

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

**2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): > 5,000.000000 mg/kg

**Skin corrosion/irritation****Product:**

Remarks : May irritate skin.  
May cause skin irritation in susceptible persons.

**Components:****N-methyl-2-pyrrolidone:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

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**2-pyrrolidone:**

Species : Rabbit  
Assessment : No skin irritation  
Method : Draize Test  
Result : No skin irritation

**N-methyl-2-pyrrolidone:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

**2-pyrrolidone:**

Species : Rabbit  
Assessment : No skin irritation  
Method : Draize Test  
Result : No skin irritation

**Serious eye damage/eye irritation****Product:**

Remarks : Causes serious eye irritation.

**Components:****N-methyl-2-pyrrolidone:**

Species : Rabbit  
Result : Severe eye irritation  
Method : OECD Test Guideline 405  
GLP : no

**2-pyrrolidone:**

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation  
Method : Draize Test

**N-methyl-2-pyrrolidone:**

Species : Rabbit  
Result : Severe eye irritation  
Method : OECD Test Guideline 405  
GLP : no

**2-pyrrolidone:**

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation  
Method : Draize Test

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**Respiratory or skin sensitization****Product:**

Remarks : No data available

**Components:****N-methyl-2-pyrrolidone:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.  
GLP : yes

**2-pyrrolidone:**

Assessment : Did not cause sensitization on laboratory animals.  
Method : No information available.  
Result : Did not cause sensitization on laboratory animals.

**N-methyl-2-pyrrolidone:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Not a skin sensitizer.  
GLP : yes

**2-pyrrolidone:**

Assessment : Did not cause sensitization on laboratory animals.  
Method : No information available.  
Result : Did not cause sensitization on laboratory animals.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:****2-pyrrolidone:**Genotoxicity in vitro : Test Type: Ames test  
Result: negative**2-pyrrolidone:**Genotoxicity in vitro : Test Type: Ames test  
Result: negative

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**Carcinogenicity****Product:**

Remarks : No data available

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

**STOT-single exposure****Product:**

Remarks : No data available

**STOT-repeated exposure****Product:**

Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Aspiration toxicity****Product:**

No data available

**Further information****Product:**

Remarks : No data available

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**SECTION 12: Ecological information****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: No data availableToxicity to daphnia and other :  
aquatic invertebrates Remarks: No data available

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**Components:**
**N-methyl-2-pyrrolidone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

Toxicity to algae/aquatic plants : (Scenedesmus subspicatus): > 500 mg/l  
Exposure time: 72 h  
GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 12.5 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts):

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.25 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

**2-pyrrolidone:**

Toxicity to fish : LC50 (zebra danio): 4,600.000000 mg/l  
Exposure time: 96.0 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): > 500.000000 mg/l  
Exposure time: 48.0 h

Toxicity to algae/aquatic plants : EC50: 250.000000 mg/l  
Exposure time: 72.00 h

Toxicity to microorganisms : No data available (No data available): > 10,000.000000 mg/l  
Exposure time: 17.00 h

**N-methyl-2-pyrrolidone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l  
Exposure time: 96 h  
Test Type: static test  
GLP: no

Toxicity to algae/aquatic plants : (Scenedesmus subspicatus): > 500 mg/l  
Exposure time: 72 h

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GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 12.5 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

2,5-Furandione, telomer with ethenylbenzene and (1-methylethyl)benzene, 3-(dimethylamino)propyl imide, imide with polyethylene-polypropylene glycol 2-aminopropyl Me ether, 2-[(C10-16-alkyloxy)methyl]oxirane-quaternized, benzoates (salts):

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.25 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1  
M-Factor (Chronic aquatic toxicity) : 1

**2-pyrrolidone:**

Toxicity to fish : LC50 (zebra danio): 4,600.000000 mg/l  
Exposure time: 96.0 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): > 500.000000 mg/l  
Exposure time: 48.0 h

Toxicity to algae/aquatic plants : EC50: 250.000000 mg/l  
Exposure time: 72.00 h

Toxicity to microorganisms : No data available (No data available): > 10,000.000000 mg/l  
Exposure time: 17.00 h

**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Components:****N-methyl-2-pyrrolidone:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301C  
GLP: No information available.

**N-methyl-2-pyrrolidone:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301C  
GLP: No information available.

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### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **N-methyl-2-pyrrolidone:**

Partition coefficient: n-octanol/water : log Pow: -0.46 (25 °C)  
 Method: OECD Test Guideline 107  
 GLP: no

##### **N-methyl-2-pyrrolidone:**

Partition coefficient: n-octanol/water : log Pow: -0.46 (25 °C)  
 Method: OECD Test Guideline 107  
 GLP: no

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal information

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Do not re-use empty containers.

## SECTION 14: Transport information

### International Regulations

#### **IATA-DGR**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (Ionic SMA copolymer)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous Dangerous Goods  
 Packing instruction (cargo aircraft) : 964

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Packing instruction : 964  
(passenger aircraft)

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Ionic SMA copolymer)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
Remarks : IMDG Code segregation group - none

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

Not applicable for product as supplied.

**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****Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

**SECTION 16: Other information**

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

AllC - 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 Standardization; 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 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 -

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International Organization 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; 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.

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