

## SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

### ARMOSTAT 300-XE50

Version 2

Revision Date 06/18/2020

Print Date 11/13/2020

US / Z8

#### 1. IDENTIFICATION

Product name : ARMOSTAT 300-XE50

Product Use Description : Specific use(s): Antistatic additive

Company : Nouryon Functional Chemicals B.V.  
Velperweg 76  
Arnhem 6824 BM  
NL

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Fax :

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Emergency telephone : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,  
CA-CANUTEC:1-613-996-6666, JP: +81 (3) 3234 0801, CN:  
化学事故应急咨询电话: +86 532 8388 9090

#### 2. HAZARDS IDENTIFICATION

##### Emergency Overview

Appearance	Dustless granules
Color	white
Odor	amine-like

##### GHS Classification

Acute toxicity, Category 4, Oral  
Skin corrosion, Category 1C  
Serious eye damage, Category 1  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

##### GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**

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P260 Do not breathe dusts or mists.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## **Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.

## **Storage:**

P405 Store locked up.

## **Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

## **Carcinogenicity:**

### **IARC**

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

### **OSHA**

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

### **NTP**

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

### Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
Bis (2-hydroxyethyl) tallow alkylamine	61791-44-4	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 10 M-Factor (Chronic): 1	>= 48 - <= 52

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

- General advice : Immediate medical attention is required.  
Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Burns may occur several hours after the removal of the product.
- Inhalation : Obtain medical attention immediately.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Wash skin immediately with 0,5 % acetic acid in water, and then with soap and water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
Skin irritation, if untreated, may be prolonged and serious (e.g., necrosis). This may be prevented by early treatment with medium strength corticosteroids.
- Eye contact : In case of contact with eyes, rinse immediately with 0.5% acetic acid in water for a few minutes, followed by rinsing with plenty of water for as long as possible. Eyelids should be held away from the eyeball to ensure thorough rinsing.  
  
Get medical attention immediately. Continue to rinse during transport of patient.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.  
Do not induce vomiting! May cause chemical burns in mouth

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and throat.

## Notes to physician

Symptoms	: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
Risks	: Harmful if swallowed. Causes serious eye damage. Causes severe burns.
Treatment	: Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting / Specific hazards arising from the chemical	: Treat as oil fire. Do not use a solid water stream as it may scatter and spread fire. Water spray may be ineffective unless used by experienced firefighters. Do not allow run-off from fire fighting to enter drains or water courses.
Combustion products	: Carbon oxides Nitrogen oxides (NOx)
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: 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.

See also Section 9. Physical and chemical properties: Safety data

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation.
Emergency measures on accidental release	: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone.
Environmental precautions	: Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.

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Methods for cleaning up / : Pick up and arrange disposal without creating dust.  
Methods for containment : Keep in suitable, closed containers for disposal.

Reference to other sections : For disposal considerations see section 13.

For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling : For personal protection see section 8.  
Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against : Provide appropriate exhaust ventilation at places where dust  
fire and explosion is formed.

### Storage

Requirements for storage : Keep container tightly closed in a dry and well-ventilated  
areas and containers place.  
Avoid elevated temperatures.  
Reacts with copper, aluminum, zinc and their alloys

Other data : No decomposition if stored and applied as directed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### Appropriate engineering controls

Provide eyewash station and safety shower. Keep solutions of 0.5% acetic acid in water close at hand.

### Personal protective equipment

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

Hand protection : Glove material: Nitrile rubber  
: Glove material: butyl-rubber

Skin and body protection : Protective suit

Respiratory protection : Wear full face mask supplied with:  
Combination filter: ABEKP.

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Hygiene measures : Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Dry-clean contaminated clothing before reuse.

## Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Discharge into the environment must be avoided.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : Dustless granules  
Color : white  
Odor : amine-like  
Odor Threshold : No data available

### Safety data

pH : Not applicable  
Melting point : > 120 °C  
Boiling point/boiling range : No data available  
Flash point : Not applicable  
Evaporation rate : Not applicable  
Flammability (solid, gas) : Not classified as a flammability hazard  
Flammability (liquids) : Not applicable  
Lower explosion limit : No data available  
Upper explosion limit : No data available  
Vapor pressure : Not applicable  
Relative vapor density : Not applicable  
Relative density : 0.95 at 20 °C  
Bulk density : No data available  
Water solubility : at 20 °C  
insoluble  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available

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Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: Extremes of temperature and direct sunlight.
Materials to avoid	: Reacts with copper, aluminum, zinc and their alloys
Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: No dangerous reaction known under conditions of normal use.

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

Acute toxicity	: Harmful if swallowed.
Skin corrosion/irritation	: Causes severe burns.
Serious eye damage/eye irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information.
Germ cell mutagenicity	: Not classified based on available information.
Carcinogenicity	: Not classified based on available information.
Reproductive toxicity	: Not classified based on available information.
STOT-single exposure	: Not classified based on available information.
STOT-repeated exposure	: Not classified based on available information.

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Aspiration hazard : Not classified based on available information.

## Potential Health Effects

Inhalation : Thermal decomposition can lead to release of irritating gases and vapors.

Skin : Burns may occur several hours after the removal of the product.  
Symptoms may be delayed.  
Causes severe skin burns.  
The product may be absorbed through the skin.

Eyes : Vapor in the eyes may cause irritation and pain.  
Causes severe eye burns.

Ingestion : Harmful if swallowed.  
Causes burns.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

## Toxicology Assessment

Further information : No further data available.

## Test result

Acute oral toxicity : Acute toxicity estimate: 1,011 mg/kg  
Method: Calculation method

## Carcinogenicity:

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

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

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

## TOXICOLOGY DATA FOR THE INGREDIENTS:

### Test result

#### Component: Bis (2-hydroxyethyl) tallow alkylamine

Acute oral toxicity : LD50: > 300 - 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401

Skin irritation : Species: Rabbit  
Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.



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Method: OECD Test Guideline 404

Eye irritation : Result: Risk of serious damage to eyes.  
Read-across (Analogy)

Sensitization : Maximization Test  
Species: Guinea pig  
Result: negative  
Method: OECD Test Guideline 406  
Read-across (Analogy)

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

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

#### Further information on ecology

##### Hazardous to the ozone layer

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

### COMPONENTS:

#### Test result

##### Component: Bis (2-hydroxyethyl) tallow alkylamine

#### Ecotoxicity effects

Toxicity to fish : LC50: > 0.1 - 1 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 203  
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 0.01 - 0.1 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

Toxicity to algae : EC50: > 0.01 - 0.1 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

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EC10: > 0.01 - 0.1 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201

M-Factor (Acute) : 10

M-Factor (Chronic) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 0.001 - 0.01 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

## Elimination information (persistence and degradability)

Bioaccumulation : Bioconcentration factor (BCF): < 500  
Method: Calculation method

Mobility : immobile

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

## Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

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## 13. DISPOSAL CONSIDERATIONS

Product : 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.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3259  
Proper shipping name : Amines, solid, corrosive, n.o.s.  
(Tallowbis(2-hydroxyethyl)amine)  
Class : 8  
Packing group : III  
Labels : 8  
Packing instruction (cargo) : 864

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aircraft)  
Packing instruction : 860  
(passenger aircraft)  
Packing instruction (LQ) : Y845  
Environmentally hazardous : yes

## IMDG-Code

UN number : UN 3259  
Proper shipping name : AMINES, SOLID, CORROSIVE, N.O.S.  
(Tallowbis(2-hydroxyethyl)amine)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes  
(Tallowbis(2-hydroxyethyl)amine)

## 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

UN/ID/NA number : UN 3259  
Proper shipping name : Amines, solid, corrosive, n.o.s.  
(Tallowbis(2-hydroxyethyl)amine)  
Class : 8  
Packing group : III  
Labels : 8  
ERG Code : 154  
Marine pollutant : yes  
(Tallowbis(2-hydroxyethyl)amine)  
Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

## 15. REGULATORY INFORMATION

### Notification status

TCSI : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All substances listed as active on the TSCA inventory  
AICS : YES. On the inventory, or in compliance with the inventory  
DSL : YES. All components of this product are on the Canadian DSL  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviations, see section 16.

### TSCA list

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.  
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification requirements.

### EPCRA - Emergency Planning and Community Right-to-Know

### CERCLA Reportable Quantity

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

## **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

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

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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## **California Prop. 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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## **16. OTHER INFORMATION**

### **Full text of H-Statements**

H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### **Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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 -

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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 - 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; 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

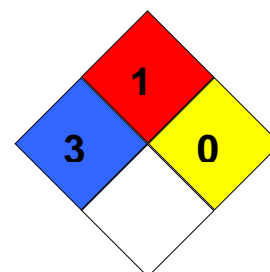
## Further information

### HMIS Classification

: Health Hazard: 3  
Chronic Health Hazard: /  
Flammability: 1  
Physical hazards: 0

### NFPA Classification

: Health Hazard: 3  
Fire Hazard: 1  
Reactivity Hazard: 0



## Notification status explanation

TCSI	Taiwan Chemical Substance Inventory (TCSI)
TSCA	United States TSCA Inventory
AICS	Australia Inventory of Chemical Substances (AICS)
DSL	Canadian Domestic Substances List (DSL)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
NZIoC	New Zealand. Inventory of Chemical Substances

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This data sheet contains changes from the previous version in section(s):

Hazards identification

Composition/information on ingredients

Physical and chemical properties

The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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.