

**METALSTAR UV SELECT 21-2072 872 GOLD**

|         |                |              |                                 |
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| Version | Revision Date: | SDS Number:  | Date of last issue: 03/27/2018  |
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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : METALSTAR UV SELECT 21-2072 872 GOLD

Product code : 046434DP0

**Manufacturer or supplier's details**

Company name of supplier : ECKART GmbH

Address : Guentersthal 4  
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone : CHEMTREC: 800-424-9300  
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero GmbH, Ingelheim, Germany:  
From outside US: (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free):1-800-5355-053

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**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity (Oral) : Category 4

Skin irritation : Category 3

Eye irritation : Category 2A

Skin sensitization : Category 1

Reproductive toxicity : Category 2

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

**GHS label elements**

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Hazard pictograms



Signal Word

: Warning

Hazard Statements

: H302 Harmful if swallowed.  
 H316 Causes mild skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H361 Suspected of damaging fertility or the unborn child.  
 H410 Very toxic 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.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 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 or doctor/ physician if you feel unwell. Rinse mouth.  
 P302 + P352 IF ON SKIN: Wash with plenty of water.  
 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.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.

**Storage:**

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P405 Store locked up.

**Disposal:**

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

Hazardous ingredients which must be listed on the label:

Copper

Zinc

Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)

1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-

Polyester acrylate

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous ingredients**

| Chemical name   | CAS-No.      | Concentration (% w/w) |
|---|--------------|-----------------------|
| Copper  | 7440-50-8    | >= 20 -< 30           |
| 2-Propenoic acid, 1,1'-[2-[[2,2-bis[[[(1-oxo-2-propen-1-yl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl] ester                     | 94108-97-1   | >= 20 -< 30           |
| Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1) | 28961-43-5   | >= 5 -< 10            |
| 1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-   | 119344-86-4  | >= 1 -< 5             |
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-                  | 52408-84-1   | >= 1 -< 5             |
| Polyester acrylate  | Not Assigned | >= 1 -< 5             |

## SECTION 4. FIRST AID MEASURES

General advice : Take the victim into fresh air.  
Move out of dangerous area.

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Show this material safety data sheet to the doctor in attendance.

- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
  
If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : 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.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
Causes mild skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Special powder against metal fire  
Dry sand  
ABC powder
- Unsuitable extinguishing media : Water  
High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Standard procedure for chemical fires.

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
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 : Use mechanical handling equipment.

Pick up and transfer to properly labeled containers.  
Do not flush with water.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.  
No smoking.

Normal measures for preventive fire protection.

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- Advice on safe handling : Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
  
- Hygiene measures : General industrial hygiene practice.
  
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.
  
- Conditions for safe storage : Keep away from sources of ignition - No smoking.  
Do not store near combustible materials.  
Keep containers tightly closed in a cool, well-ventilated place.  
To maintain product quality, do not store in heat or direct sunlight.  
  
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.
  
- Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.  
Do not store together with oxidizing and self-igniting products.
  
- 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**

| Ingredients | CAS-No. | Value type<br>(Form of exposure) | Control parameters / Permissible | Basis |
|-------------|---------|----------------------------------|----------------------------------|-------|
|             |         |                                  |                                  |       |

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|        |           |                               | concentration                     |                       |
|--------|-----------|-------------------------------|-----------------------------------|-----------------------|
| Copper | 7440-50-8 | LMPE-PPT                      | 1 mg/m <sup>3</sup><br>(Copper)   | MX OEL                |
|        |           | LMPE-CT                       | 2 mg/m <sup>3</sup><br>(Copper)   | MX OEL                |
|        |           | LMPE-PPT                      | 0.2 mg/m <sup>3</sup><br>(Copper) | MX OEL                |
|        |           | LMPE-CT                       | 2 mg/m <sup>3</sup><br>(Copper)   | MX OEL                |
|        |           | VLE-PPT<br>(Fumes)            | 0.2 mg/m <sup>3</sup><br>(Copper) | NOM-010-<br>STPS-2014 |
|        |           | VLE-PPT<br>(Dust and<br>mist) | 1 mg/m <sup>3</sup><br>(Copper)   | NOM-010-<br>STPS-2014 |
|        |           | TWA                           | 1 mg/m <sup>3</sup><br>(Copper)   | ACGIH                 |
|        |           | TWA                           | 0.2 mg/m <sup>3</sup><br>(Copper) | ACGIH                 |
|        |           | TWA (Dust<br>and mist)        | 1 mg/m <sup>3</sup><br>(Copper)   | ACGIH                 |
|        |           | TWA<br>(Fumes)                | 0.2 mg/m <sup>3</sup><br>(Copper) | ACGIH                 |

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
Respirator with a vapor filter (EN 141)

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

Hand protection  
Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

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danger of cuts, abrasion, and the contact time.  
Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses  
Wear face-shield and protective suit for abnormal processing problems.

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

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                               |
|--|-------------------------------|
| Appearance                                       | : liquid                      |
| Color  | : gold                        |
| Odor   | : characteristic              |
| Odor Threshold                                   | : No data available           |
| pH   | : No data available           |
| Melting point/freezing point                     | : No data available           |
| Boiling point/boiling range                      | : > 150 °C                    |
| Flash point                                      | : > 100 °C                    |
| Evaporation rate                                 | : No data available           |
| Flammability (solid, gas)                        | : No data available           |
| Upper explosion limit / Upper flammability limit | : No data available           |
| Lower explosion limit / Lower flammability limit | : No data available           |
| Vapor pressure                                   | : No data available           |
| Relative density                                 | : No data available           |
| Density  | : 1.4 - 1.6 g/cm <sup>3</sup> |
| Solubility(ies)                                  |                               |
| Water solubility                                 | : insoluble                   |
| Partition coefficient: n-octanol/water           | : No data available           |
| Autoignition temperature                         | : No data available           |
| Decomposition temperature                        | : No data available           |
| Viscosity  | : No data available           |

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### SECTION 10. STABILITY AND REACTIVITY



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Reactivity : No decomposition if stored and applied as directed.

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

Possibility of hazardous reactions : Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

Conditions to avoid : Do not allow evaporation to dryness.

No data available

**Hazardous decomposition products**

Thermal decomposition : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Harmful if swallowed.

**Ingredients:****Copper:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

**1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Exposure time: 4 h  
Remarks: No data available

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

**Skin corrosion/irritation**

Causes mild skin irritation.

**Ingredients:****Copper:**

Remarks: May cause skin irritation in susceptible persons.

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

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Result: Skin irritation

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Ingredients:****Copper:**

Result: Eye irritation

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Ingredients:****Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Result: May cause sensitization by skin contact.

Remarks: Causes sensitization.

May cause sensitization of susceptible persons by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**STOT-single exposure**

Not classified based on available information.

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**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Ingredients:****Copper:**

Remarks: No data available

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Copper:**

M-Factor (Acute aquatic toxicity) : 10

**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia): 10,232.73 mg/l

**1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-:****Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

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**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Ingredients:****Copper:**

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.

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****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.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
In accordance with local and national regulations.

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**SECTION 14. TRANSPORT INFORMATION****Domestic regulation****NOM-002-SCT**

Not regulated as a dangerous good

**Special precautions for user**

Remarks : For single packagings <=5L / 5 kg, or combination

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packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

**International Regulations****IATA-DGR**

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

**IMDG-Code**

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 (Copper metal powder)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes  
 Remarks : For single packagings <=5L / 5 kg, or combination  
 packagings containing inner packagings <= 5L / 5 kg net per  
 inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197  
 IATA-DGR may be applied.

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

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Federal Law for the control of chemical precursors, : Not applicable  
 essential chemical products and machinery for  
 producing capsules, tablets and pills.

**The ingredients of this product are reported in the following inventories:**

DSL : This product contains one or several components that are not

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on the Canadian DSL nor NDSL.

TSCA : On TSCA Inventory

EINECS : On the inventory, or in compliance with the inventory

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**SECTION 16. OTHER INFORMATION**
**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 MX OEL : Mexico. Occupational Exposure Limits  
 NOM-010-STPS-2014 : Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Control - Appendix 1 Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average  
 MX OEL / LMPE-PPT : Time weighted average  
 MX OEL / LMPE-CT : Short term exposure limit  
 NOM-010-STPS-2014 / VLE- : Time weighted average limit value  
 PPT

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; CPR - Controlled Products Regulations; 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 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;

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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

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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.

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