

**STAPA NDF 170 Aluminum Paste**

Version 1.0      Revision Date: 04/11/2018      SDS Number: 102000001183      Date of last issue: -  
Date of first issue: 04/11/2018

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**SECTION 1. IDENTIFICATION**

Product name : STAPA NDF 170 Aluminum Paste

Product code : 050950G60

**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 in accordance with 29 CFR 1910.1200**

Flammable solids : Category 1

Skin irritation : Category 2

Eye irritation : Category 2B

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H228 Flammable solid.

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H315 + H320 Causes skin and eye irritation.

## Precautionary Statements

: **Prevention:**

P210      Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P240      Ground/bond container and receiving equipment.  
P241      Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P264      Wash skin thoroughly after handling.  
P280      Wear protective gloves/ eye protection/ face protection.

**Response:**

P302 + P352      IF ON SKIN: Wash with plenty of soap and 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.  
P332 + P313      If skin irritation occurs: Get medical advice/ attention.  
P337 + P313      If eye irritation persists: Get medical advice/ attention.  
P362      Take off contaminated clothing and wash before reuse.  
P370 + P378      In case of fire: Use for extinction: Special powder for metal fires.  
P370 + P378      In case of fire: Use for extinction: Dry sand.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 70 - < 90
Distillates (petroleum), hydrotreated light	64742-47-8	>= 10 - < 20
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 1 - < 5

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**SECTION 4. FIRST AID MEASURES**

General advice      :    Take the victim into fresh air.  
Do not leave the victim unattended.

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Move out of dangerous area.  
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 on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
  
Flush eyes with water as a precaution.  
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.

Most important symptoms and effects, both acute and delayed : Causes skin and eye irritation.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry sand  
Special powder against metal fire

Unsuitable extinguishing media : Water  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

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.

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Special protective equipment : Use personal 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.  
Use personal protective equipment.  
Avoid dust formation.  
Remove all sources of ignition.

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.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
  
Do not flush with water.  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Earthing of containers and apparatuses is essential.  
Take measures to prevent the build up of electrostatic charge.  
Use explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Keep away from heat and sources of ignition.  
Avoid dust formation.  
Ensure adequate ventilation.

Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the

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application area.  
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Store in original container.  
 Keep containers tightly closed in a cool, well-ventilated place.  
 Keep container closed when not in use.  
 Keep away from sources of ignition - No smoking.

No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.

Technical measures/Precautions : Protect from humidity and water.  
 Do not allow to dry.

Materials to avoid : Do not store together with oxidizing and self-igniting products.  
 Never allow product to get in contact with water during storage.  
 Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3

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		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIH
		TWA	5 mg/m <sup>3</sup> (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m <sup>3</sup> (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (welding fumes)	5 mg/m <sup>3</sup> (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m <sup>3</sup> (Aluminum)	NIOSH REL
		TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH
		TWA (Fumes)	5 mg/m <sup>3</sup>	OSHA P0
Distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL

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Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

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 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

Skin and body protection : Long sleeved clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Pasty solid
Color	: silver
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 170 °C
Flash point	: 43 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: The substance or mixture is a flammable solid with the category 1.
Auto-flammability	: not auto-flammable
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
Solubility(ies)	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: 240 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: Not explosive Vapors may form explosive mixture with air.

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**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	: Reacts with alkalis, acids, halogenes and oxidizing agents. Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of hydrogen. Vapors may form explosive mixture with air.

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Stable under recommended storage conditions.

Conditions to avoid : Do not allow to dry.  
Heat, flames and sparks.

Incompatible materials : Acids  
Bases  
Oxidizing agents  
Highly halogenated compounds

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Ingredients:

#### Distillates (petroleum), hydrotreated light:

Result: Skin irritation

#### Serious eye damage/eye irritation

Causes eye irritation.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### 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.

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

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

Assessment: May cause drowsiness or dizziness.

**Solvent naphtha (petroleum), light arom.:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Ingredients:****Distillates (petroleum), hydrotreated light:**

May be fatal if swallowed and enters airways.

**Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

**Further information**

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****Distillates (petroleum), hydrotreated light:****Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

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Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**Solvent naphtha (petroleum), light arom.:****Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

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.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 1325
Proper shipping name	: Flammable solid, organic, n.o.s. (Aluminium pigment paste)
Class	: 4.1
Packing group	: II
Labels	: Flammable Solid

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Packing instruction (cargo aircraft) : 448

Packing instruction (passenger aircraft) : 445

**IMDG-Code**

UN number : UN 1325

Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
(Aluminium pigment paste)

Class : 4.1

Packing group : II

Labels : 4.1

EmS Code : F-A, S-G

Marine pollutant : no

Remarks : IMDG Code segregation group 15 - Powdered metals

**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 1325

Proper shipping name : Flammable solids, organic, n.o.s.  
(Aluminum pigment paste)

Class : 4.1

Packing group : II

Labels : FLAMMABLE SOLID

ERG Code : 133

Marine pollutant : no

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)
cumene	98-82-8	5000
Benzene, dimethyl-	1330-20-7	100

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

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

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)

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Skin corrosion or irritation  
 Serious eye damage or eye irritation

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

Aluminum	7429-90-5	>= 70 - < 90 %
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**Clean Air Act**

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).

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 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**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Benzene, dimethyl-	1330-20-7	0.116 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Benzene, dimethyl-	1330-20-7	0.116 %
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

Aluminum	7429-90-5
Distillates (petroleum), hydrotreated light	64742-47-8
Fatty acids, C14-18 and C16-18-unsatd.	67701-06-8

**Pennsylvania Right To Know**

Aluminum	7429-90-5
Distillates (petroleum), hydrotreated light	64742-47-8
Solvent naphtha (petroleum), light arom.	64742-95-6
Benzene, 1,2,4-trimethyl-	95-63-6

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Benzene, dimethyl-	1330-20-7
cumene	98-82-8

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



WARNING: This product can expose you to chemicals including cumene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Aluminum	7429-90-5
Distillates (petroleum), hydrotreated light	64742-47-8

**California Permissible Exposure Limits for Chemical Contaminants**

Aluminum	7429-90-5
Distillates (petroleum), hydrotreated light	64742-47-8

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

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average

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OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The 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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