SAFETY DATA SHEET

eConduct Aluminium 202000

SECTION 1. IDENTIFICATION

Product name : eConduct Aluminium 202000
Product code : 020764B20

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>&gt;= 70 - &lt; 90</td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice
Take the victim into fresh air.
No hazards which require special first aid measures.

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.

In case of eye contact
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
None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry sand
Special powder against metal fire

Unsuitable extinguishing media
ABC powder
Carbon dioxide (CO2)
Water
Foam

Specific hazards during fire fighting
Contact with water liberates extremely flammable gas (hydrogen).
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.
Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Use personal protective equipment.
- Evacuate personnel to safe areas.
- Avoid dust formation.

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.
- Do not use a vacuum cleaner.
- Do not flush with water.
- Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
- Use explosion-proof equipment.
- During processing, dust may form explosive mixture in air.
- Take measures to prevent the build up of electrostatic charge.
- When transferring from one container to another apply earthing measures and use conductive hose material.
- Normal measures for preventive fire protection.

Advice on safe handling:
- Avoid creating dust.
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Store away from heat.
- 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.

Conditions for safe storage:
- Earthing of containers and apparatuses is essential.
Reactions with water liberates extremely flammable gas (hydrogen).
Use explosion-proof equipment.
Store in original container.
Keep containers tightly closed in a cool, well-ventilated place.
Keep away from sources of ignition - No smoking.
Keep container closed when not in use.

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.

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: Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>TWA (total dust)</td>
<td>50 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>5 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m3</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (total)</td>
<td>10 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m3</td>
<td>OSHA Z-3</td>
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<td></td>
<td></td>
<td>TWA (respirable)</td>
<td>15 Million particles per cubic</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>TWA (Respirable fraction)</td>
<td>TWA (Total dust)</td>
<td>TWA (Respirable dust fraction)</td>
</tr>
<tr>
<td>--------------------</td>
<td>------------</td>
<td>---------------------------</td>
<td>------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Aluminium</td>
<td></td>
<td>1 mg/m³</td>
<td>15 mg/m³ (Aluminum)</td>
<td>5 mg/m³ (Aluminum)</td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>0.1 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>6 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **ACGIH**: American Conference of Governmental Industrial Hygienists
- **NIOSH REL**: National Institute for Occupational Safety and Health Reference Levels
- **OSHA P0**: Occupational Safety and Health Administration Permissible Exposure Levels
- **OSHA Z-1**: OSHA (Total dust) Limit
- **OSHA Z-3**: OSHA (Total dust) Limit

**Saftey Data Sheet**

**eConduct Aluminium 202000**

**Version**: 1.0

**Revision Date**: 03/21/2018

**SDS Number**: 102000022007

**Date of last issue**: -

**Date of first issue**: 03/21/2018
<table>
<thead>
<tr>
<th>Aluminum</th>
<th>7429-90-5</th>
<th>TWA (total dust)</th>
<th>50 Million particles per cubic foot</th>
<th>OSHA Z-3</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
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<td></td>
<td>TWA (total dust)</td>
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<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-3</td>
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<tr>
<td></td>
<td></td>
<td>TWA (respirable fraction)</td>
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<td>OSHA Z-3</td>
</tr>
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<td></td>
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<td></td>
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<td>TWA (Total)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA P0</td>
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<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³ Aluminum</td>
<td>OSHA P0</td>
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<td></td>
<td></td>
<td>TWA (total dust)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA Z-1</td>
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<td></td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³ Aluminum</td>
<td>OSHA Z-1</td>
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<td></td>
<td>TWA (Total dust)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA P0</td>
</tr>
<tr>
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<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>
### Personal protective equipment

Respiratory protection: Use suitable breathing protection if workplace concentration requires. Breathing apparatus with filter. P1 filter

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>TWA (respirable dust fraction)</th>
<th>TWA (Aluminum)</th>
<th>Standard</th>
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<tbody>
<tr>
<td>Aluminum</td>
<td></td>
<td>TWA (welding fumes) 5 mg/m³ (Aluminum)</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (pyro powders) 5 mg/m³ (Aluminum)</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction) 1 mg/m³ (Aluminum)</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Fumes) 5 mg/m³</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>TWA 0.1 mg/m³</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust) 0.01 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 0.01 mg/m³</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 0.01 mg/m³</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust and fume) 0.1 mg/m³</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust) 0.01 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>TWA 6 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust) 20 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust) 80 mg/m³ / %SiO²</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust) 20 Million particles per cubic foot (Silica)</td>
<td>OSHA Z-3</td>
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<tr>
<td></td>
<td></td>
<td>TWA (Dust) 80 mg/m³ / %SiO² (Silica)</td>
<td>OSHA Z-3</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>TWA 6 mg/m³ (Silica)</td>
<td>NIOSH REL</td>
<td></td>
</tr>
</tbody>
</table>
Hand protection
   Material : Leather
   Glove length : Long sleeve gloves

Remarks : Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Lab coat
                       Dust impervious protective suit
                       Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder
Color : silver
Odor : No data available
Odor Threshold : No data available
pH : No data available
Melting point/range : 660 °C

Initial boiling point and boiling range : No data available
Flash point : No data available
Evaporation rate : No data available
Flammability (solid, gas) : Combustible Solids

Burning number : 1

Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : 30 g/m3
Vapor pressure : No data available
Relative density : No data available
Solubility(ies) : 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
: Contact with acids and alkalis may release hydrogen.
Stable under recommended storage conditions.
Dust may form explosive mixture in air.

Conditions to avoid
: No data available

Incompatible materials
: Acids
   Bases
   Oxidizing agents
   Water

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Ingredients:
Silica:
Acute oral toxicity
: LD50 (Rat): 5,000 mg/kg
   (Mouse): 15,000 mg/kg

Acute inhalation toxicity
: (Rat): 0.139 mg/l
   Exposure time: 4 h

Acute dermal toxicity
: LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.
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.

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.

STOT-repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Silver:
M-Factor (Acute aquatic toxicity) : 10
SAFETY DATA SHEET  

eConduct Aluminium 202000  

M-Factor (Chronic 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.

Silica:
Toxicity to daphnia and other aquatic invertebrates : (Daphnia): 7,600 mg/l
Toxicity to algae : (Chlorella pyrenoidosa): 440 mg/l

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Other adverse effects
No data available

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations
IATA-DGR
UN/ID No. : UN 3077
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Silver)
Class: 9
Packing group: III
Labels: Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft): 956
Packing instruction (passenger aircraft): 956
IMDG-Code
UN number: UN 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)
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.

Domestic regulation

49 CFR
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>7440-22-4</td>
<td>1000</td>
</tr>
</tbody>
</table>

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 : No SARA Hazards

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

- Aluminum 7429-90-5 >= 70 - < 90 %
- Silver 7440-22-4 >= 20 - < 30 %

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 SOCMI 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. Clean Water Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.
This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307 Silver 7440-22-4 20 %

US State Regulations
Massachusetts Right To Know
Aluminum 7429-90-5
Silver 7440-22-4
Silica 7631-86-9

Pennsylvania Right To Know
Aluminum 7429-90-5
Silver 7440-22-4
Silica 7631-86-9

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.

California List of Hazardous Substances
Aluminum  7429-90-5
Silver      7440-22-4
Silica     7631-86-9

California Permissible Exposure Limits for Chemical Contaminants
Aluminum  7429-90-5
Silver      7440-22-4
Silica     7631-86-9

The ingredients of this product are reported in the following inventories:
DSL : All components of this product are on the Canadian DSL
TSCA : On TSCA Inventory

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

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
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eConduct Aluminium 202000

Version 1.0
Revision Date: 03/21/2018
SDS Number: 102000022007
Date of last issue: -
Date of first issue: 03/21/2018

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
OSHA P0 / TWA : 8-hour time weighted average
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; IECS - 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

Revision Date : 03/21/2018

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.

US / Z8