SAFETY DATA SHEET

SILVERSHINE P-1000

SECTION 1. IDENTIFICATION

Product name : SILVERSHINE P-1000
Product code : 052618IA0

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
Flammable solids : Category 1
Reproductive toxicity : Category 1B

GHS label elements
Hazard pictograms : 

Signal Word : Danger
Hazard Statements : H228 Flammable solid. H360 May damage fertility or the unborn child.
Precautionary Statements:

Prevention:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

Storage:
- 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:
1-Propanol, 2-methoxy-, acetate

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-methoxy-, 2-acetate</td>
<td>108-65-6</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>1-Propanol, 2-methoxy-, acetate</td>
<td>70657-70-4</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice: Take the victim into fresh air. Do not leave the victim unattended. Move out of dangerous area.

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: May damage fertility or the unborn child.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry sand
Special powder against metal fire

Unsuitable extinguishing media: Water
Foam
Carbon dioxide (CO2)
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.

**Special protective equipment for fire-fighters**

Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

### 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.

### 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.
- 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:
- 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

<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>2-Propanol, 1-methoxy- , 2-acetate</td>
<td>108-65-6</td>
<td>TWA</td>
<td>50 ppm</td>
<td>US WEEL</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>TWA</td>
<td>500 ppm, 2,000 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm, 1,600 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>TWA</td>
<td>500 ppm, 2,000 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (total dust)</td>
<td>50 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------</td>
<td>----------------------------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (total)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (respirable fraction)</td>
<td>15 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (Respirable fraction)</td>
<td>1 mg/m³</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (Total)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³ Aluminum</td>
<td>OSHA P0</td>
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<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (total dust)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA Z-1</td>
<td></td>
</tr>
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<td>Aluminum 7429-90-5</td>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³ Aluminum</td>
<td>OSHA Z-1</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (Total)</td>
<td>15 mg/m³ Aluminum</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (respirable dust fraction)</td>
<td>5 mg/m³ Aluminum</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (welding fumes)</td>
<td>5 mg/m³ Aluminum</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (pyro powders)</td>
<td>5 mg/m³ Aluminum</td>
<td>NIOSH REL</td>
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</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA</td>
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<td>ACGIH</td>
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</tr>
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<td>Substance</td>
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<td>Level</td>
<td>Source</td>
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</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>TWA (total dust)</td>
<td>50 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
<td></td>
</tr>
<tr>
<td>TWA (respirable fraction)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Respirable fraction)</td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
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</tr>
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<td>OSHA Z-3</td>
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<td>TWA (Respirable fraction)</td>
<td>15 Million particles per cubic foot</td>
<td>OSHA Z-3</td>
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</tr>
<tr>
<td>TWA (Respirable)</td>
<td>1 mg/m³</td>
<td>ACGIH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Aluminum)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
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<td></td>
</tr>
<tr>
<td>TWA (Total)</td>
<td>15 mg/m³</td>
<td>OSHA P0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
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<td></td>
</tr>
<tr>
<td>TWA (total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
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<td>OSHA P0</td>
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</tr>
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<td></td>
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</tr>
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</tr>
<tr>
<td>TWA (pyro powders)</td>
<td>5 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA (Respirable)</td>
<td>1 mg/m³</td>
<td>ACGIH</td>
<td></td>
<td></td>
</tr>
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</table>
### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>50 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

### 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.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pasty solid
Color : silver
Odor : odorless
Odor Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : 146 °C
Flash point : 40 °C

Evaporation rate : No data available
Flammability (solid, gas) : No data available
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
Density : 1.4 g/cm3

Solubility(ies) : No data available
Partition coefficient: n-
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. 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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Ingredients:
Naphtha (petroleum), hydrotreated heavy:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapor Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Solvent naphtha (petroleum), light arom.:
Acute oral toxicity : LD50 (Rat): 3,492 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3,160 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
May damage fertility or the unborn child.

STOT—single exposure
Not classified based on available information.

Ingredients:
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:
Solvent naphtha (petroleum), light arom.:
May be fatal if swallowed and enters airways.

Further information

Ingredients:
Naphtha (petroleum), hydrotreated heavy:
Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Ecotoxicology Assessment
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

Ingredients:
Naphtha (petroleum), hydrotreated heavy:
Additional ecological information: 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. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

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
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: Flammable Solid
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
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>acetone</td>
<td>67-64-1</td>
<td>5000</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: Flammable (gases, aerosols, liquids, or solids)
Reproductive toxicity

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

- Aluminum 7429-90-5 >= 10 - < 20 %
- Aluminum 7429-90-5 >= 5 - < 10 %

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).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

- acetone 67-64-1 1.8 %
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

US State Regulations

Massachusetts Right To Know
- Solvent naphtha (petroleum), light arom. 64742-95-6
- Aluminum 7429-90-5
- Aluminum 7429-90-5
- acetone 67-64-1
- Fatty acids, C14-18 and C16-18-unsatd. 67701-06-8

Pennsylvania Right To Know
- 2-Propanol, 1-methoxy-, 2-acetate 108-65-6
- Naphtha (petroleum), hydrotreated heavy 64742-48-9
- Solvent naphtha (petroleum), light arom. 64742-95-6
- Aluminum 7429-90-5
- Aluminum 7429-90-5
- acetone 67-64-1

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
- Aluminum 7429-90-5
California Permissible Exposure Limits for Chemical Contaminants

2-Propanol, 1-methoxy-, 2-acetate  108-65-6

Aluminum  7429-90-5

Aluminum  7429-90-5

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)
ACGIH BEI  :  ACGIH - Biological Exposure Indices (BEI)
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
US WEEL  :  USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA  :  8-hour, time-weighted average
ACGIH / STEL  :  Short-term exposure limit
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 P0 / STEL  :  Short-term exposure limit
OSHA Z-1 / TWA  :  8-hour time weighted average
OSHA Z-3 / TWA  :  8-hour time weighted average
US WEEL / TWA  :  8-hr TWA

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,
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.