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# SAFETY DATA SHEET

<b>SECTION 1</b>	<b>IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING</b>
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As of the revision date above, this SDS meets the regulations in the United Kingdom excluding Northern Ireland.

## 1.1. PRODUCT IDENTIFIER

**Product Name: METALGRIP**

**Product Description: Chemical connector between metal and PE bases**

## 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST Intended

**Use: for ski/snowboard repair**

**Uses advised against: None unless specified elsewhere in this SDS.**

## 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Supplier:**

Liski S.r.l. Via  
Veneto, 8  
I – 24041 Brembate  
Italy  
Phone: +39 35 4826195

**Local Contact:**

**Supplier General Contact:**

**E-Mail: [info@liski.it](mailto:info@liski.it)**

## 1.4. EMERGENCY TELEPHONE NUMBER

**24 Hour Emergency Telephone:**

**This material is not subject to Safety Data Sheet provision according to Article 31 of REACH.**

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<b>SECTION 2</b>
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<b>HAZARDS IDENTIFICATION</b>
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### 2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE

Classification according to GB CLP

Not Classified

### 2.2. LABEL ELEMENTS

No Label elements according to GB CLP

### 2.3. OTHER HAZARDS

Physical / Chemical Hazards:

**WARNING:** May form combustible dust concentrations in air (during processing/handling). Thermal burn hazard - contact with hot material may cause thermal burns. Material can accumulate static charges which may cause an ignition. Spilled pellets present a slipping hazard on hard surfaces.

Health Hazards:

If dust is generated, it could scratch the eyes and cause minor irritation to the respiratory tract. When heated, the vapour/fumes given off may cause respiratory tract irritation.

Environmental Hazards:

No significant hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

<b>SECTION 3</b>
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<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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### 3.1. SUBSTANCES

This material is defined as a substance.

No Hazardous Substance(s) required for disclosure.

**NOTE:** The product may contain varying levels of additives such as slip and anti-blocking agents, antioxidants and stabilisers.

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3.2. MIXTURES Not Applicable. This product is regulated as a substance.

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**4.1. DESCRIPTION OF FIRST AID MEASURES**

**INHALATION**

At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected. In case of adverse exposure to vapours and / or aerosols formed at elevated temperatures, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest.

**SKIN CONTACT**

For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

**EYE CONTACT**

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

**INGESTION**

First aid is normally not required. Seek medical attention if discomfort occurs.

**4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

No important symptoms or effects.

**4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

<b>SECTION 5</b>	<b>FIRE FIGHTING MEASURES</b>
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**5.1. EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Unsuitable Extinguishing Media:** Straight streams of water

**5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

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**Hazardous Combustion Products:** Acetic acid, Acrylic Acid, Incomplete combustion products, Oxides of carbon, Smoke, Fume

### 5.3. ADVICE FOR FIRE FIGHTERS

**Fire Fighting Instructions:** Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >250°C (482°F) - 340°C (644°F) [ASTM E136]

**Upper/Lower Flammable Limits (Approximate volume % in air):** UEL: No data available                      LEL: No data available

**Autoignition Temperature:** No data available

<b>SECTION 6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>
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## 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

## 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.

## 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

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**Land Spill:** Stop leak if you can do so without risk. Spilled pellets present a slipping hazard on hard surfaces. Prevent dust cloud. **Small Dry Spills:** With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### 6.4. REFERENCES TO OTHER SECTIONS

See Sections 8 and 13.

<b>SECTION 7</b>
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<b>HANDLING AND STORAGE</b>
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#### 7.1. PRECAUTIONS FOR SAFE HANDLING

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dust from material can accumulate electrostatic charges due to friction from transfer and mixing operations and cause an electrical spark (ignition source). Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools. However, bonding and grounds may not eliminate the hazard for static accumulation. Consult local applicable standards for guidance. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids and EN 61241, Electrical Apparatus for Use in the Presence of Combustible Dust for safe handling. Avoid elevated temperatures for prolonged periods of time. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent small spills and leakage to avoid slip hazard. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Care should be taken when storing and handling this product. Apart from the specific nature of the polymer product, conditions such as humidity, sunlight and temperature have an influence on the way the product behaves during storage and handling.

Special attention should be paid to avoid inappropriate stacking of palletised bags or other package units. Indeed, polymer products may be dimensionally unstable under certain conditions. Avoid conditions generating heat during transfer operations.

Loading/Unloading Temperature: [Ambient]

Transport Temperature: [Ambient]

Transport Pressure: [Ambient]

**Static Accumulator:** This material is a static accumulator.

## 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

It is recommended not to heat the material to a temperature above its flash point. The type of container used to store the material may affect static accumulation and dissipation. Store in a cool, dry place. Do not store in open or unlabelled containers. Storage Temperature: [Ambient] Storage Pressure: [Ambient]

Suitable Containers/Packing: Bulk Containers; Bags; Boxes; Hopper Cars

Suitable Materials and Coatings (Chemical Compatibility): Polyethylene; Polypropylene; Aluminium

## 7.3. SPECIFIC END USES

Section 1 informs about identified end-uses. No industrial or sector specific guidance available.

# SECTION 8

# EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. CONTROL PARAMETERS

Exposure limits/standards for materials that can be formed when handling this product: For dusty conditions, ACGIH recommends for insoluble and poorly soluble particles not otherwise specified an 8-hour TWA of 10 mg/m<sup>3</sup> (inhalable particles), 3 mg/m<sup>3</sup> (respirable particles).

Note: Information about recommended monitoring procedures can be obtained from the relevant agency(ies)/institute(s):

UK Health and Safety Executive (HSE)

## 8.2. EXPOSURE CONTROLS

### ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

Adequate ventilation should be provided so that exposure limits are not exceeded. **SPECIAL PRECAUTIONS:** Should significant vapors/fumes be generated during thermal processing of this product, it is recommended that work stations be monitored for the presence of thermal degradation byproducts which may evolve at elevated temperatures (for example, oxygenated components).

Processors of this product should assure that adequate ventilation or other controls are used to control exposure. It is recommended that the current ACGIH-TLVs for thermal degradation byproducts be observed. Contact your local sales representative for further information. It is recommended that all dust control equipment such as local exhaust ventilation and material

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transport systems involved in handling of this product are designed and maintained to minimize dust generation and accumulation.

Ensure that dust-handling systems (such as exhaust ducts, dusts collectors, vessels, and processing equipment) are designed to minimize the potential for dust ignition and prevent explosion propagation. For example, use explosion relief vents, an explosion suppression system or inert equipment internals. Additional examples of proper equipment include using only appropriately classified electrical equipment and powered industrial trucks.

## **PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Particulate air-purifying respirator approved for dust or oil mist is recommended. European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If product is hot, thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

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clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

**Physical State: Solid Form:**

**Pellet**

**Colour: Clear to Opaque, White to Off-White**

**Odour: Mild**

**Odour Threshold: No data available pH:**

**Not technically feasible**

**Melting Point: 85°C (185°F) - 105°C (221°F) [In-house method]**

**Freezing Point: No data available**

**Initial Boiling Point / and Boiling Range: Not technically feasible**

**Flash Point [Method]: >250°C (482°F) - 340°C (644°F) [ASTM E136]**

**Evaporation Rate (n-butyl acetate = 1): Not technically feasible**

**Flammability (Solid, Gas): Not technically feasible**

**Upper/Lower Flammable Limits (Approximate volume % in air): UEL: No data available**

**LEL:**

**No data available**

**Vapour Pressure: [Negligible] [In-house method]**

**Vapour Density (Air = 1): No data available**

**Relative Density: 0.92 - 0.95 [In-house method]**

**Solubility(ies): water Negligible**

**Partition coefficient (n-Octanol/Water Partition Coefficient): Not technically feasible Autoignition**

**Temperature: No data available**

**Decomposition Temperature: No data available**

**Viscosity: Not technically feasible**

**Explosive Properties: None**

**Oxidizing Properties: None**

### 9.2. OTHER INFORMATION

**Bulk Density: 0.5 g/cc at 20 °C - 0.6 g/cc at 20 °C [In-house method]**



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**Molecular Weight: 1000 - 50000**

**Hygroscopic: No**

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**10.1. REACTIVITY:** See sub-sections below.

**10.2. CHEMICAL STABILITY:** Material is stable under normal conditions.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**10.4. CONDITIONS TO AVOID:** Avoid elevated temperatures for prolonged periods of time. High dust concentrations. Do not heat above Flash Point.

**10.5. INCOMPATIBLE MATERIALS:** Strong oxidisers

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on chemical structure (polymers).
Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on chemical structure (polymers).
Eye	

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Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on chemical structure (polymers).
Sensitisation	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on chemical structure (polymers).
Aspiration: No end point data for material.	Not expected to be an aspiration hazard. Based on physicochemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on chemical structure (polymers).
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on chemical structure (polymers).
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on chemical structure (polymers).
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on chemical structure (polymers).

## OTHER INFORMATION

For the product itself:

Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes and respiratory tract.

Dust may be irritating to eyes and respiratory tract. Contains:

Additives that are encapsulated in the polymer. Under the normal conditions for processing and use of this polymer the encapsulated additives are not expected to pose any health hazard. However, grinding of the polymer is not recommended without the use of appropriate measures to control exposure (see Section 8 - Engineering Controls).

## SECTION 12

## ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

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#### **12.1. TOXICITY**

**Material -- Not expected to be harmful to aquatic organisms.**

**Material -- Not expected to be harmful to terrestrial organisms.**

#### **12.2. PERSISTENCE AND DEGRADABILITY Biodegradation:**

**Material -- Expected to be persistent.**

#### **12.3. BIOACCUMULATIVE POTENTIAL**

**Material -- Potential to bioaccumulate is low.**

#### **12.4. MOBILITY IN SOIL**

**Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.**

#### **12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)**

**Material does not meet the Reach Annex XIII criteria for PBT or vPvB.**

#### **12.6. OTHER ADVERSE EFFECTS**      **No adverse effects are expected.**

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.**

#### **13.1. WASTE TREATMENT METHODS**

**Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.**

**NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s). The European Waste Catalogue (EWC) / List of Waste (LoW) code is specific to the waste**

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generating process and waste constituents. Determine the EWC / LoW according to the criteria provided in the European Waste Catalogue and the hazardous waste list established by Commission Decision 2000/532/EC or the UK List of Waste, as amended.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**LAND (ADR/RID): 14.1-14.6 Not Regulated for Land Transport**

**INLAND WATERWAYS (ADN): 14.1-14.6 Not Regulated for Inland Waterways Transport**

**SEA (IMDG): 14.1-14.6 Not Regulated for Sea Transport according to IMDGCode**

**SEA (MARPOL 73/78 Convention - Annex II):**

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not classified according to Annex II**

**AIR (IATA): 14.1-14.6 Not Regulated for Air Transport**

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS**

Listed or exempt from listing/notification on the following chemical inventories : Please contact Customer Service (see Section 1 for supplier contact information).

**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

**Applicable UK legislation:**

**UK REACH [... Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]**

**GB CLP [Classification, labelling and packaging of substances and mixtures.. and amendments thereto]**

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**REACH Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII):**

The following entries of Annex XVII may be considered for this product: None

## 15.2. CHEMICAL SAFETY ASSESSMENT

**REACH Information:** A Chemical Safety Assessment has not been carried out for any of the substances present in the material.

### SECTION 16

### OTHER INFORMATION

**REFERENCES:** Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

**List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:**

Acronym	Full text
N/A	Not applicable
N/D	Not determined
NE	Not established
VOC	Volatile Organic Compound
AIC	Australian Inventory of Industrial Chemicals
AIHA WEEL	American Industrial Hygiene Association Workplace Environmental Exposure Limits
ASTM	ASTM International, originally known as the American Society for Testing and Materials (ASTM)
DSL	Domestic Substance List (Canada)
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and new Chemical Substances (Japanese inventory)
IECSC	Inventory of Existing Chemical Substances in China
KECI	Korean Existing Chemicals Inventory
NDSL	Non-Domestic Substances List (Canada)
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TLV	Threshold Limit Value (American Conference of Governmental Industrial Hygienists)
TSCA	Toxic Substances Control Act (U.S. inventory)

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UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials
LC	Lethal Concentration
LD	Lethal Dose
LL	Lethal Loading
EC	Effective Concentration
EL	Effective Loading
NOEC	No Observable Effect Concentration
NOELR	No Observable Effect Loading Rate

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

**Section 15: EU Directives and Regulations information was modified.**

**Section 16: Materials Covered information was modified.**

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