



Safety Phrases: **S24** and **S25** are relevant. For industrial and professional users (as distinct from consumers, who do not receive the SDS) they are given in full in Section 7.1 of this SDS in order to avoid the need to print them on the label.

### 2.3 Other Hazards

Contact of the product with eyes and skin should be avoided due to the abrasive nature of the product.

## SECTION 3: Composition/Information on ingredients

For REACH classification purposes this product is a **mixture**. It consists of particulate Aluminium Oxide abrasive suspended in an emulsion of a fatty acid and a synthetic ester in water. No registration number is given as the product does not contain any substances that presents a hazard to health or environment, in concentrations equal or greater than those laid down by Regulation (EC) No. 453/2010; however Aluminium Oxide is shown because it has Workplace Exposure Limits (*refer to section 8*).

Component	CAS Number	EC Number	REACH Number	Index No.	Concentration
Aluminium Oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx	-	20 – 50 %

Classification under REACH	N/A
Symbol letters	N/A
R phrases	N/A

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Inhalation** Product is a liquid paste, therefore inhalation risk is low. During use dust formation is unlikely however remove to fresh air if sufficient dust is generated and inhaled.

**Eye contact** Flush with water for 15 min, also under eyelids. Seek medical advice.

**Skin contact** Wash with plenty of soap and water.

**Ingestion** Product is non-toxic. Drink large quantity of water, do **not** induce vomiting.

**Further advice** No delayed effects are expected.  
Removal of clothes and shoes is **not** necessary.  
Personal protective equipment for first aid responders is **not** necessary.

### 4.2 Symptoms and effects

**Severe inhalation** May result in shortness of breath

**Eye contact** May result in redness or swelling.

**Skin contact** May cause minor redness/swelling

## SECTION 5: Fire fighting measures

**5.1 Suitable extinguishing media** : CO<sub>2</sub> / water fog / dry powder  
**Unsuitable extinguishing media** : Water jet

### 5.2 Specific exposure hazards, combustion products etc.

This product is a water based emulsion and not flammable. However the water in the liquid emulsion may evaporate with heat to leave a slight residue that is combustible. Experience shows that if ignited it will burn slowly with a smoky flame. In a large fire, or in an enclosed space, the resulting smoke could be a hazard. Burning creates carbon dioxide, and if burnt in a restricted supply of air there may also be potential for the creation of carbon monoxide.

- 5.3 Special advice for firefighters**  
Breathing apparatus should be worn.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions**

- 6.1.1 For non-emergency personnel : The product is a liquid emulsion and in the event of spillage or accidental release there is unlikely to be a significant hazard, or any need for provision of ventilation or respiratory protection. Minimise skin contact, avoid eye contact, and remove ignition sources.
- 6.1.2 For emergency responders: There are no special requirements for personal protection or suitable protective fabrics.

### **6.2 Environmental precautions**

- 6.2.1 Although the product is non-toxic and partly biodegradable, it is still desirable that spillage should be kept away from drains, water, and soil. See also Section 12 of this SDS 'Ecological Information.'
- 6.2.2 There is no need to alert the neighbourhood in the event of a spillage.

### **6.3 Methods for cleaning up**

- 6.3.1 Spilt product can be mopped up using soapy water.
- 6.3.2 No particular precautions are required other than those applicable to normal handling.

## **SECTION 7: Handling and storage**

For industrial and professional users, certain precautionary statements are given in this section in order to avoid the need to print them on the label.

### **7.1 Precautions for safe handling**

The product is not hazardous, and no special provisions are required other than normal good housekeeping and precautions regarding hygiene, lifting, etc. Do not eat, drink or smoke in work areas, and wash hands after using or handling the product.

No Risk Phrases are required. However, Safety Phrases S24 (Avoid contact with skin) and S25 (Avoid contact with eyes) do apply. These precautions are recommended purely because of the mechanical effect of the abrasive content, and not because of any inherent toxicity or chemical property.

### **7.2 Conditions for safe storage, including any incompatibilities**

The product should be kept away from direct sunlight and other sources of heat. No incompatibility is expected between the product and other substances in normal industrial use. However, contact with strongly oxidising materials should be avoided.

### **7.3 Specific end use**

Please refer to the Lea Manufacturing Technical Data Sheet for this product.

## **SECTION 8: Exposure controls and personal protection**

### **8.1 Control parameters**

#### **8.1.1 National Limit Values**

The only applicable control parameter is the concentration of airborne dust generated during use. The currently applicable parameter is the Workplace Exposure Limit (WEL).

None of the components of the product are classifiable as hazardous under REACH, and a Chemical Safety Report was not required. It is unlikely that the generation of Aluminium Oxide dust will occur during use of the product; however Aluminium Oxide is subject to the

Workplace Exposure Limits given below. The values shown are taken from the HSE Guidance Notes “*Workplace Exposure Limits*” (reference EH40/2005, amended 2011).

### 8.1.2 Occupational Exposure limit values

Aluminium Oxide	WEL (8hr TWA)
Total inhalable dust	10 mg/m <sup>3</sup>
Respirable dust	4 mg/m <sup>3</sup>

### 8.1.3 Information on monitoring procedures

The current recommended monitoring procedure is Personal Sampling, in accordance with the HSE booklet “*General methods of sampling and gravimetric analysis of respirable and total inhalable dust*” (reference MDHS 14/3). This procedure gives a result in milligrams of dust per cubic metre, which relates directly to the published WEL standards.

## 8.2 Exposure controls

### 8.2.1 Engineering controls

Not applicable.

### 8.2.2 Individual protection measures

Respiratory protection	:	A disposable dust mask is adequate.
Hand protection	:	Nitrile gloves are sufficient.
Eye protection	:	Goggles or safety spectacles.
Skin protection	:	No further skin protection should be necessary but a barrier cream may be advisable for individuals with sensitive skin.
General	:	Overalls should be worn, and changed when contaminated.

### 8.2.3 Environmental exposure controls

Other than keeping away from drains, water, and soil, there are no specific requirements.

## SECTION 9: Physical and chemical properties

Appearance	:	Pink coloured paste
Odour if any	:	Slight and soap-like
Odour threshold	:	More perceptible when warm
pH	:	8.5 - 9
Melting point	:	Not applicable
Boiling point/range	:	100°C
Flash point	:	Not applicable; product is non-flammable
Evaporation rate	:	No data available
Flammability	:	Not applicable; product is non-flammable
Flammability limits	:	Not applicable; product is non-flammable
Vapour pressure	:	3.17KPa @ 25°C
Vapour density	:	No data available
Specific Gravity at 20°C	:	No data available
Water solubility	:	Soluble emulsion
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temp	:	> 350°C
Decomposition temp	:	Unknown
Viscosity	:	30000 - 50000 cps
Explosive properties	:	Not applicable; product is not explosive
Oxidising properties	:	Not applicable; product is non-oxidising

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Experience shows that neither the product nor any of its components have the potential for hazardous reaction under normal conditions of use or storage, on contact with water, or if released into the environment.

### **10.2 Chemical stability**

Under storage at normal ambient temperatures (0°C to 30°C) the product is stable.

### **10.3 Possibility of hazardous reactions**

Experience shows that the product has no potential to react or polymerise, release excess pressure or heat, or create other hazardous conditions.

### **10.4 Conditions to avoid**

The product may become visibly less viscous if stored at temperatures above normal ambient. This may render the product unusable but has no safety implications. Experience shows that pressure, light, shock, static discharge, vibration or other physical stresses are **not** capable of producing a hazardous situation.

### **10.5 Incompatible materials**

Contact with highly oxidising materials should be avoided.

### **10.6 Hazardous decomposition products**

Decomposition through combustion will produce carbon dioxide, smoke, and possibly carbon monoxide if burnt in a limited supply of air.

## **SECTION 11: Toxicological information**

Neither the product nor its components are toxic, but experience shows the product is capable of causing skin or eye irritation. This is a purely mechanical effect due to the abrasive content, and is not due to any inherent toxicity or chemical property.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Neither the product nor its components are toxic.

### **12.2 Persistence and degradability**

The emulsion is readily biodegradable. The abrasives are not biodegradable but are not harmful to the environment.

### **12.3 Bioaccumulative potential**

None of the components have potential to bioaccumulate.

### **12.4 Mobility in soil**

The emulsion components being readily biodegradable have little or no potential to migrate into the groundwater. Quantitative information is not available.

### **12.5 Results of PBT and vPvB assessment**

A chemical safety report was not required so this section is not applicable.

### **12.6 Others**

The product has no potential for ozone depletion.

## SECTION 13: Disposal considerations

### 13.1 Product / packaging disposal

The fresh product, its packaging, and its residues from foreseeable use, present no hazards and can be disposed of as Non-Hazardous Waste.

### 13.2 Waste treatment

No special considerations are required. The product and its residues can be landfilled or incinerated as Non-Hazardous Waste. Contaminated packaging can be landfilled or incinerated as Non-Hazardous Waste, and uncontaminated cardboard packaging can be recycled.

### 13.3 Sewage disposal

In the unlikely event of the product finding its way into sewage, no special considerations are required.

### 13.4 Other disposal recommendations

The user should refer to the local, national and European provisions regarding waste disposal. See also Section 12 of this SDS 'Ecological Information'.

## SECTION 14: Transport information

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL/73/78 and the IBC code	Not applicable
14.8	Other relevant information	
	The product is not classified as a Dangerous Good for any mode of transport.	

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the product

EU regulations:	Not applicable
Authorisations and/or restrictions on use	
Authorisations:	Not applicable
Restrictions on use:	Not applicable
Other EU regulations:	Not applicable
Information according to 1999/13 about limitation of emissions of volatile organic compounds (VOC guideline):	Not applicable

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment was not necessary for this product. No health and safety information is necessary on the label.

See also Section 12 of this SDS 'Ecological Information'.

### 15.3 General Statement on compliance to Food Contact Regulations

We confirm that this product fulfils the requirements on materials used for articles or components of articles intended to come into contact with food as described in:  
Regulation (EC) No 1935/2004 – so far applicable for raw materials

## SECTION 16: Other information

### Data changed compared with previous version

#### Section

- 1 Product identified as a mixture (was formerly a preparation), addition of office hours to contact details
- 2 No significant change
- 3 Product identified as a mixture (was formerly a preparation)
- 4 Symptoms and effects added
- 5 No significant change
- 6 No significant change
- 7 Expansion of handling information
- 8 No significant change
- 9 New information provided on physical and chemical properties
- 10 New statements regarding stability and potential for hazardous reaction
- 11 No significant change
- 12 New statements regarding mobility in soil and results of PBT and vPvB assessment
- 13 New statements regarding disposal
- 14 No significant change
- 15 No significant change

#### Sources of key data used to compile this SDS

CLP Regulation reference EC1272/2008

HSE Guidance Notes "*Workplace Exposure Limits*" reference EH40/2005, amended 2011

European Chemicals Agency "*Guidance on the compilation of safety data sheets*" version 2.1, February 2014

Croner's reference publications

Raw material suppliers' own Safety Data Sheets and technical information.

**Risk phrases** : No Risk Phrases are required for this product.

**Safety phrases** : S24: Avoid contact with skin  
S25: Avoid contact with eyes

#### Training advice

It is recommended that all end users of this product seek guidance from the supplier regarding correct handling and use.

#### Exposure scenarios

No exposure scenarios are required because this product is not the subject of a Chemical Safety Report. No exposure scenarios, or associated information, have been communicated to us in the health and safety information from our raw material suppliers.

#### Disclaimer

The information given in this SDS is based upon the present state of our knowledge. The SDS has been compiled for, and is intended solely for, the product identified in Section 1.1.

#### WARRANTY

We warrant our goods to conform to our standard specifications. This Warranty is in lieu of any and all other warranties or guarantees and our obligation hereunder for breach of such warranty is limited to either refund of the purchase price or replacement of said goods as we may elect.

We believe that the statements, technical information, and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind except as specified above. Beyond that specified above, we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of the use of, or inability to use, our goods. Their quality and suitability for any particular purpose or use should be confirmed by the user's own tests.

The product will remain fit for use for a minimum of five years provided normal care is taken to ensure appropriate storage conditions and that any special storage conditions given on the product labels are adhered to at all times.