



Safety Data Sheet

This Safety Data Sheet has been compiled in accordance with Article 31, Annex II of Commission Regulation (EC) No 1907/2006, particularly as amended by Regulation (EC) No 987/2008, No 1272/2008, No 453/2010 and No 2015/830

SECTION 1: Identification of product and company

- 1.1 Product identifier** **Titan V**
- 1.2 Relevant identified use** A liquid abrasive compound for medium finishing of metals, intended for use by application with a rotating wheel or mop, or by hand
- 1.3 Details of supplier of SDS**
- Manufacturer** Lea Manufacturing Company,
Unit 1, Tongue Lane Industrial Estate, Fairfield, Buxton,
Derbyshire SK17 7LN, United Kingdom
- Telephone:** 01298 25335 (0044 1298 25335 outside UK)
Fax: 01298 79945 (0044 1298 79945 outside UK)
Email: Email: info@lea.co.uk
- 1.4 Emergency telephone** +44 1298 25335 (only available during office hours
08:20-17:00 Monday-Thursday & 08:20-12:30 Friday,
UK time)

SECTION 2: Possible Hazards

- 2.1 Classification of the substance or mixture**
- 2.1.1 This product does **NOT** meet the criteria for classification in any hazard class according to Commission Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. However, a Safety Data Sheet is supplied on request as the product contains components for which there are Union Workplace Exposure Limits
- The Safety Data Sheet serves to communicate information down the supply chain in accordance with Article 32 of Commission Regulation (EC) No 1907/2006
- 2.1.2 Additional information
Supplemental EU Hazard information: EUH066 – see SECTION 16 of this SDS ‘Other Information’
- 2.2 Label elements**
- Hazard Pictograms: None
- Signal word: None
- Hazard statement(s): : None
- Precautionary statement(s): P282 : Wear cold insulating gloves/face shield/eye protection
- P501 : Dispose of contents/containers in accordance with local regulation
- 2.3 Other hazards**
- This product is a mixture which does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH

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 lipids and 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 Commission Regulation (EC) No 2015/830; however Aluminium Oxide is shown because it has a Union Workplace Exposure Limits. See SECTION 8 of this SDS 'Exposure controls and personal protection'

Component	CAS Number	EC Number	REACH Number	Classification according to Regulation (EC) No 1272/2008 (CLP)	Concentration
Aluminium Oxide	1344-28-1	215-691-6	01-2119529248-35-xxxx	None	25 – 50%

This product is in compliance with Commission Regulation (EU) No 722/2012

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation : If exposed to excessive levels of dust, remove to fresh air
- Eye contact : Flush with water for 15 min, also under eyelids. Seek medical advice if irritation persists
- 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 : Removal of clothes and shoes is not necessary
Personal protective equipment for first aid responders is not necessary

4.2 Most important symptoms and effects, both acute and delayed

- Severe inhalation : May cause shortness of breath
- Eye contact : May cause redness or swelling
- Skin contact : May cause minor redness/swelling

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable : CO₂ / Water fog / Dry powder
- Unsuitable : Water jet

5.2 Special hazards arising from the mixture

- Hazardous combustion products : Carbon oxides (CO, CO₂)

5.3 Advice for firefighters

Self-Contained Breathing Apparatus with chemical resistant gloves should be worn



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- 6.1.1 For non-emergency personnel: 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 Keep away from drains, surface and ground water

6.3 Methods and materials for containment and cleaning up

- 6.3.1 Temporarily bund area to prevent spreading
- 6.3.2 Use an appropriate tool to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

6.4 Reference to other sections

- 6.4.1 See SECTION 13 of this SDS 'Disposal considerations'

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

Ensure good local exhaust ventilation at the workplace. No special provisions are required other than normal good housekeeping and precautions regarding hygiene. Do not eat, drink or smoke in work areas, and wash hands after using or handling the product. Avoid contact with skin and eyes

7.2 Conditions for safe storage, including any incompatibilities

Store in a well ventilated area at temperatures between 5°C to 30°C. The product should be kept away from direct sunlight and other sources of heat. No incompatibility is expected between the product and other substances. However, contact with strongly oxidising materials should be avoided

7.3 Specific end use

The product is used by applying it by hand to the metal surface. Protective measures as described in SECTION 8 should be heeded, and care in the application of compound will help maintain cleanliness in the workplace.

See also SECTION 12 of this SDS 'Ecological Information'

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)
Aluminium Oxide may be released during use and this 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	10mg/m ³
Respirable dust	4mg/m ³

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*

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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

Local Exhaust Ventilation should be provided to maintain exposure below the WEL during use. Where LEV is not available, protective equipment should be employed as described in Section 8.2.2:

8.2.2 Individual protection measures

- | | | |
|------------------------|---|---|
| Respiratory protection | : | A disposable dust mask is adequate |
| Hand protection: | : | Canvas gloves are desirable, for protection primarily against rotating machinery and risk of abrasion |
| Eye protection: | : | Goggles or safety glasses with side-shields |
| 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

9.1 Information on basic physical and chemical properties

- | | | |
|---|---|--|
| Appearance | : | Grey liquid |
| Odour (if any) | : | Slight, soap-like |
| Odour threshold | : | More perceptible when warm |
| pH | : | > 7 |
| Melting point | : | Not applicable |
| Boiling point | : | > 80°C |
| Flash point | : | > 65°C, not determined |
| 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 | : | 1.10 – 1.50g/cm ³ |
| Water solubility | : | Miscible emulsion |
| Partition coefficient <i>n</i> -octanol/water | : | No data available |
| Auto-ignition temperature | : | > 350°C |
| Decomposition temperature | : | Unknown |
| Viscosity | : | 100000 – 500000mPa.S |
| Explosive properties | : | Not applicable; product is not explosive |
| Oxidising properties | : | Not applicable; product is non-oxidising |

9.2 Other information

None



SECTION 10: Stability and reactivity

- 10.1 Reactivity**
None
- 10.2 Chemical stability**
Stable
- 10.3 Possibility of hazardous reactions**
None
- 10.4 Conditions to avoid**
Avoid storage at temperatures below 5°C or above 30°C
- 10.5 Incompatible materials**
Oxidising substances
- 10.6 Hazardous decomposition products**
None

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
- | | |
|---------------------------------------|--|
| a) Acute toxicity: | Based on available data, the classification criteria are not met |
| b) Skin corrosion/irritation: | Based on available data, the classification criteria are not met |
| c) Serious eye damage/irritation: | Based on available data, the classification criteria are not met |
| d) Respiratory or skin sensitisation: | Based on available data, the classification criteria are not met |
| e) Germ cell mutagenicity: | Based on available data, the classification criteria are not met |
| f) Carcinogenicity: | Based on available data, the classification criteria are not met |
| g) Reproductive toxicity: | Based on available data, the classification criteria are not met |
| h) STOT-single exposure: | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure: | Based on available data, the classification criteria are not met |
| j) Aspiration Toxicity: | Based on available data, the classification criteria are not met |

SECTION 12: Ecological information

- 12.1 Toxicity**
None
- 12.2 Persistence and degradability**
Readily biodegradable
- 12.3 Bio accumulative potential**
None
- 12.4 Mobility in soil**
Negligible
- 12.5 Results in PBT and vPvB assessment**
Not relevant
- 12.6 Others**
The product has no potential for ozone depletion



SECTION 13: Disposal considerations

13.1 Product / packaging disposal

The product, its packaging, and its residues, present no environmental 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. Waste should be disposed of in compliance with local regulations

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 Goods for any mode of transport

SECTION 15: Regulatory information

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

EC 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'



SECTION 16: Other information

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

EU Hazard information: EUH066 : Repeated exposure may cause skin dryness or cracking

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

Data change compared to v2.1

SECTION 3

Addition of compliance with Commission Regulation (EU) No 722/2012

SECTION 16

Statement on shelf-life added

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 4 months 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