

SAFETY DATA SHEET

Excel Industries Thermotite

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Excel Industries Thermotite
Container size	125ml, 250ml
REACH registration number	01-2119448725-31-0012
CAS number	1344-09-8
EC number	215-687-4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Adhesive.
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1.3. Details of the supplier of the safety data sheet

Supplier	Excel Industries Coolmine Industrial Estate Clonsilla Road Dublin 15 Tel: 00 353 1811 8701 Fax: 00 353 1811 8785
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1.4. Emergency telephone number

National emergency telephone number Excel Industries Ltd 00 353 1811 8701 (Mon-Fri 09:00 - 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

Human health The product is considered to be a low hazard under normal conditions of use. May be slightly irritating to skin.

Environmental Not regarded as an environmental hazard under current legislation.

Physicochemical Alkaline solution

2.2. Label elements

EC number 215-687-4

Precautionary statements P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Composition comments Water based alkaline solution.

Excel Industries Thermotite

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Unlikely route of exposure as the product does not contain volatile substances. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Remove contaminated clothing. Apply replenishing cream.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information	Material classified as non-hazardous under current legislation.
Inhalation	Inhalation of mist may cause irritation of respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	There may be irritation and redness at the site of contact
Eye contact	There may be irritation and redness.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable.
Unsuitable extinguishing media	Product is not flammable.

5.2. Special hazards arising from the substance or mixture

Specific hazards	This product is waterbased and is not combustible N/A
Hazardous combustion products	Product is not flammable.

5.3. Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Excel Industries Thermotite

6.3. Methods and material for containment and cleaning up

Methods for cleaning up PERSONAL PROTECTION. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Good personal hygiene procedures should be implemented. Avoid eating, drinking and smoking when using the product. Wear appropriate personal protective equipment (see Section 8)

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Do not allow to freeze. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy. Use containers made of the following materials: Stainless steel. Store away from the following materials: Acids.

Storage class Unspecified storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

SODIUM SILICATE LIQUID (CAS: 1344-09-8)

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Personal protection Wear protective work clothing.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection Wear alkali resistant gloves (PVC, rubber or natural latex) tested according to EN374.

Other skin and body protection Provide eyewash station. Wear suitable gloves if prolonged or repeated skin contact is likely

Hygiene measures Provide eyewash station. Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Excel Industries Thermotite

Appearance	Viscous liquid.
Colour	Colourless to translucent.
Odour	No characteristic odour.
pH	pH (diluted solution): 11-13 @ 1% dilution
Melting point	0 to -12 Deg.C°C
Initial boiling point and range	~100 Deg.C @°C @ 760 mm Hg
Vapour pressure	~2.3 kPa @ °C
Relative density	1.3-1.6 g/L @ @ 20 Deg.C°C
Solubility(ies)	Soluble in water.
Viscosity	10-10000 mPa s @ °C

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions. Reactions with the following materials may generate heat: Strong acids. Aqueous solutions will react with aluminium, zinc, copper and their alloys evolving hydrogen gas which can form an explosive mixtures with air.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Aqueous solutions will react with aluminium, zinc, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air. Exothermic reaction if in contact with acids. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with acids. Avoid freezing.

10.5. Incompatible materials

Materials to avoid Strong acids. Aluminium, zinc, copper and their alloys.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,400.0

Species Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Slightly irritating, not classified as harmful

Acute toxicity - inhalation

Excel Industries Thermotite

Notes (inhalation LC₅₀)	In case of inhalation, irritation of the respiratory system can be expected. Inhalation LC ₅₀ (rat)>2.06 g/m ³
<u>Skin corrosion/irritation</u>	
Extreme pH	Not classified.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not classified.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vivo	No evidence of genotoxicity. In vitro/in vivo negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No structural alerts.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility: - NOAEL >159 mg/kg, , Rat
Reproductive toxicity - development	Developmental toxicity: - NOAEL: >200 mg/kg, , Mouse
<u>Aspiration hazard</u>	
Aspiration hazard	Not applicable.
Inhalation	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.
Ingestion	May cause discomfort if swallowed.
Skin contact	There maybe irritation at the site of contact
Eye contact	There maybe irritation and redness.

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not regarded as dangerous for the environment

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1108 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1700 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 207 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and other species to end up as insoluble compounds similar to constituents of natural soils.

12.3. Bioaccumulative potential

Bioaccumulative potential Inorganic. The substance has no potential for bioaccumulation.

Excel Industries Thermotite

12.4. Mobility in soil

Mobility Not applicable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects The alkalinity of this material will have a local effect on ecosystems sensitive to pH change.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods No specific disposal method required.

Waste class Waste Alkaline Solutions: 06 02 99

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Refer to Section 7

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Excel Industries Thermotite

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.
Guidance	ECHA: Guidance on the Compilation of safety data sheets. (V3.1, November 2015) Approved Classification and Labelling Guide (Sixth edition) L131.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Technical Service Manager
Revision date	18/11/2014
Revision	3
Supersedes date	01/07/2014
SDS number	11883
Risk phrases in full	Not classified.

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