Safety Data Sheet

according to regulation (EC) No 1907/2006



Alumina Hydrate

RM1002

Revision date 05.12.2012

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

1.1. Product Identifier

Product name: Scarva Raw Materials RM1002 Alumina Hydrate

Product form: Substance EC no: 244-492-7 CAS No.: 21645-51-2

REACH registration No: 01-2119529246-39-0008

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

Use of the substance/mixture

General function:

Flame retardant additive.

Industrial use:

Production substance

Polymer processing

Production of plastics and rubber compounds

Formulation flame retardant preparation

Manufacture and formulation of pharmaceutical preparations

Compounds used in transport industry Compounds used in electrical application

Compounds used in electronic application

Compounds used in building and construction

Compounds used in Wire & Cable

Abrasive for glass industry, ceramics and stones

Textile coating

Production of corrosion inhibitors

Fuel

Deacidification agent for paper

pH regulator

Use in coatings, inks, paints and roofing

Use as corrosion inhibitor of gas turbines and boilers

Use in cleaning agents

Use in oil field operations

Use in lubricants

Use in metal working fluids

Use in blowing agents

Use in binders and release agents

Use in textile

Use in functional fluids

Use in agrochemicals

Use in water treatment chemicals

Use in mining chemicals

Recycling plastics

White pigment for paper and board, filler, etc.

Professional use:

Polymer processing

Use in Adhesives and/or sealants

Use in coatings, inks, paints and roofing

Use in agrochemicals

Use in cleaning agents

Use in oil field operations

Use in lubricants

Use in metal working fluids

Use in binders and release agents

Use in propellants

Use in textile

Safety Data Sheet

according to regulation (EC) No 1907/2006

Use in explosives

Use in water treatment chemicals

Use in functional fluids

For use by laboratories for research

Fue

De-icing & anti-icing applications

Road and construction applications

Consumer Use:

Use in coatings, inks, paints and roofing

Use in cleaning agents

Use in lubricants

Use in propellants

Fuel

Use in functional fluids

De-icing & anti-icing applications

Cosmetic additive

Use in water treatment chemicals

Uses advised against:

None known

1.3. Details of the supplier of the safety data sheet

Scarva Pottery Supplies

Unit 20

Scarva Road Industrial Estate

Scarva Road

Banbridge

Co Down

BT32 3QD

t: +44 (0)28 4066 9699

e: david@scarvapottery.com

w: www.scarva.com

1.3. Emergency telephone number

+44 (0)28 4066 9699

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not regulated under the criteria of EC Regulation N° 1272/2008 (CLP).

2.2. Label Elements

Labelling according to Regulation (EC) No 1272/2008

Not regulated under the criteria of EC Regulation N° 1272/2008 (CLP).

Precautionary statements:

Handle in accordance with good industrial hygiene and safety practice.

2.3. Other Hazards

This substance is not classified as PBT or vPvB according to current EU criteria.



Safety Data Sheet

according to regulation (EC) No 1907/2006



SECTION 3: Composition/information on ingredients

3.1. Substances

Aluminium Hydroxide Al(OH)₃

Ec No.	Chemical Name	CAS No.	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
244-492-7	Aluminium	21645-51-2	>99	-	-	01-2119529246-39-
	hydroxide					XXXX

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation Remove to fresh air and keep at rest in a position comfortable for breathing.

After ingestion Rinse mouth with water. Give plenty of water to drink.

After eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

After skin contact After contact with skin, wash immediately with plenty of water.

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

Not expected to be acutely toxic.

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

No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Not combustible. Use media appropriate for surrounding fire.

Extinguishing media that must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Non-combustible. No hazardous thermal decomposition.

5.3. Advice for firefighters

Protective equipment

Wear self-contained breathing apparatus and protective suit.

Additional information

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

Safety Data Sheet

according to regulation (EC) No 1907/2006



SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid dust formation. Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

DNEL/DMEL & PNEC Values

Derived No Effect Level (DNEL)

DNEL/DMEL Exposure Route	Units	Exposure Frequency	Industrial Worker	Professional Worker	General Population
Oral	mg/kg	Short-term	NA*	NA*	NA*
Oral	mg/kg bw/d	Long-term, repeated	NA*	NA*	6.85
Dermal	mg/kg bw/d	Short-term	NA*	NA*	NA*
Dermal	mg/kg bw/d	Long-term, repeated	NA*	NA*	NA
Inhalation	mg/m ³	Short-term	NA	NA	NA
Inhalation	mg/m ³	Long-term, repeated	3	3	NA

NA*: Not applicable as not classified, based on study. NA: Not applicable

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. Avoid dust formation. Training in proper use of PPE provided and ensured via an inspection policy.

Protection of hands

Protective gloves complying with EN 374

Protection of eyes

Safety glasses with side-shields

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. If dust occurs: dust mask with PI particle filter (respirator with filter FFP2-FFP3).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Form: Powder

Colour: White/Off White
Odour: Almost odourless

Water solubility: Insoluble

Density: 2.42 g/cm3 (20 °C)

Boiling point: >2900°C (1013 hPa)

pH +/-9(10% in H2O)

Safety Data Sheet

according to regulation (EC) No 1907/2006



SECTION 10: Physical and chemical properties

10.1. Reactivity

No data available

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

No particular incompatibility.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

None under normal processing

SECTION 11: Toxicological Properties

11.1. Information on toxicological effects

General information

Rat Oral LD50:>2000 mg/kg LC50/inhalation/4h/rat :>2.3 mg/L (Al2O3)

Skin irritation and corrosivity

Prolonged contact may cause dryness of the skin.

Inhalation

No skin irritation (rabbit). No eye irritation (rabbit).

Serious eye damage/eye irritation

Irritating and may cause redness and pain.

Germ cell mutagenicity

In vitro mutagenicity test: Not genotoxic in mammalian cell systems. In vivo mutagenicity tests: Mutagenicity (micronucleus test) (rat): negative (weight of evidence approach).

Carcinogenicity

Information given is based on data obtained from similar substances. Did not show carcinogenic effects in animal experiments. (weight of evidence approach).

Reproductive toxicity

Information given is based on data obtained from similar substances. No indication of effects on fertility. No indication of effects on developmental toxicity.

Additional toxicological information

Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1. Toxicity to fish, algae, daphnia and other aquatic invertebrates

Aquatic toxicity is unlikely due to low solubility.

12.2. Persistance and degradability

Inorganic substance.

12.3. Bioaccumulative potential

Not expected to bioaccumulate

12.4 Mobility in soil

Safety Data Sheet

according to regulation (EC) No 1907/2006



No information available

12.5. Results of PBT and vPvB assessment

The substance is not considered as PBT or vPvB as the criteria for categorization as "P", "B" or "T" are not fulfilled.

SECTION 13: Waste disposal

13.1. Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

ADR/RID, IMDG, IATA:

Not restricted.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Marine pollutant

Nο

14.6. Special precautions for user

Not a hazardous material with respect to these transport regulations.

14.7. 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

National Regulations

EH40/2005 Workplace exposure limits.

REACH Registration

01-2119529246-39-0008

15.2. EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th 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 Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/67/EEC, and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.3. Chemical safety assessment

A Chemical Safety Assessment has been carried out on the substance. No exposure scenarios have been developed as the substance is not classified.

SECTION 16: Other Information

Abbreviations and acronyms:

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF: Assessment factor BCF: Bioconcentration factor Bw: Body weight ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
I C50: Median lethal concentration

LC50: Median lethal concentration LD50: Median lethal dose

NOAEL: No-observed-adverse-effect-level NOEC: No observed effect concentration

NOEL: No observed effect level

Safety Data Sheet

according to regulation (EC) No 1907/2006

CAS: Chemical Abstracts Service CLP: Classification, labelling, packaging CSR: Chemical Safety Report DMEL: Derived maximum effect level

DNEL: Derivative No effect Level EC: European Community ELV: Emission limit values EN: European Norm

EUH: European Hazard Statement EWC: European Waste catalogue

IATA: International Air Transport Association

scarv

OEL: Operator exposure level PBT: Persistent, bioaccumulative, Toxic PEC: Predicted effect level PNEC: Predicted No effect Concentration

REACH: Registration, evaluation and autorisation of chemicals

RID: Regulations concerning the international carriage of dangerous

goods by rail

STEL: Short Term Exposure Limit TWA: Time weighted average

vPvB: Very persistent, very bioaccumulative.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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