ADMATEC
Additive Manufacturing Technologies

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Safety Data Sheet
Slurry Al2O3 for Admaflex130

According 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.

Version 3; Revision date: 07-05-2021

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Slurry Al2O3 for Admaflex130
Product code: 513-AL

Relevant identified use: Light curing alumina powder containing resin for the production of three dimensional alumina components.

Manufacturer: Admatec Europe B.V.
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The Netherlands
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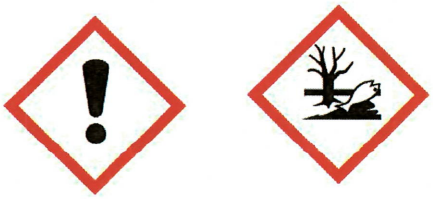
Emergency Phone : +31(0)85 0777 101 (Admatec – 9.00 – 17.00 (CEST))
911 (US / Canada)
112 (Europe Emergency number)

2. HAZARDS IDENTIFICATION

Emergency overview warning



HAZARD STATEMENTS

Hazard Statement	Description	Hazard category	Signal word	Hazard Statement
H302	Harmful if swallowed	Acute toxicity, oral	Category 4	Warning
H315	Causes skin irritation	Skin corrosion / irritation	Category 2	Warning
H317	May cause an allergic skin reaction	Sensitisation, skin	Category 1	Warning
H318	Causes serious eye damage	Serious eye damage/eye irritation	Category 1	Danger

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H361	Suspected of damaging fertility or the unborn child	Reproductive toxicity	Category 2	Warning
H401	Toxic to aquatic life	Hazardous to the aquatic environment, acute hazard	Category 2	Warning
H411	Toxic to aquatic life with long lasting effects	Hazardous to the aquatic environment, chronic toxicity	Category 2	

PRECAUTIONARY STATEMENTS — PREVENTION

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

PRECAUTIONARY STATEMENTS — RESPONSE

P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage. Hazardous to the aquatic environment.
P301 + P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P303 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P311	If SKIN irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.

PRECAUTIONARY STATEMENTS — STORAGE

P405	Store locked up, protect from light.

PRECAUTIONARY STATEMENTS — DISPOSAL

P501	Dispose of contents/container to hazardous or special waste collection point.

ADDITIONAL INFORMATION ON THE LABEL

EUH 208	Contains diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide, may cause an allergic reaction.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

CAS 10595-06-9	**2-Phenoxyethyl methacrylate**	10 – <20%
Regulation 1272/2008:	EYE Irrit. 2 : H319; Skin Irrit. 2: H315 – Warning	
CAS 60506-81-2	**Dipentaerythritol pentaacrylate**	5 – <10 %
Regulation 1272/2008:	EYE Irrit. 2 : H319 – Warning	
CAS 1245638-61-2	**2-Propenoic acid, reaction products with pentaerythritol**	< 0.5%
Regulation 1272/2008:	Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315;Skin Sens. 1: H317 – Danger	
CAS 84170-74-1	**Neopentylglycol propoxylated diacrylate**	< 0.2 %
Regulation 1272/2008:	Aquatic Chronic 2: H411; Skin Sens. 1A: H317 - Warning	

Balance: Non dangerous substances

4. FIRST-AID MEASURES

GENERAL ADVICE
Immediately remove contamination on clothing.

INHALATION
If inhaled, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

EYE CONTACT
In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.

SKIN CONTACT
Remove contaminated clothing as needed. Wash skin thoroughly with mild soap/water. Flush with lukewarm water for 15 minutes. If sticky, a waterless cleaner may be used.

INGESTION
Ingestion unlikely. However, if ingested, obtain emergency medical attention.

EMERGENCY MEDICAL TREATMENT PROCEDURES
If pain, blinking, tears, or redness continue, patient should contact an ophthalmologist.

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5. FIRE-FIGHTING MEASURES

FLASH POINT METHOD
GT 93C/200F

AUTOIGNITION TEMP. METHOD=
N/DA

FLAMMABLE LIMITS (% VOLUME IN AIR)
LOWER: N/DA

UPPER: N/DA

FIRE AND EXPLOSION HAZARDS
High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

EXTINGUISHING MEDIA
Dry chemical
CO_2
Water spray
Foam
Water fog

SPECIAL FIREFIGHTING PROCEDURES
Do not enter fire area without proper protection. decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture
closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities if liquid enters sewer/public waters.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED
Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area. Wear protective equipment during clean-up. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean-up. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

WASTE DISPOSAL METHODS
Non-contaminated, properly inhibited material is not a RCRA hazardous waste. However, contaminated material/soil/water may be RCRA/OSHA hazardous waste due to potential for internal heat generation. It is the responsibility of the generator to determine at the time of disposal whether the material meets the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Use registered transporters. Disposal options include landfilling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade; avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

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7. HANDLING AND STORAGE

Avoid spill and contact with skin and eyes. Ensure good ventilation. Avoid inhalation of vapor and spray. Hold the container tightly closed. By handling of this product eye wash fountains and safety showers must be available.

Store product in a cool, dry, ventilated storage with the container tightly closed. The material must be stored under full absence of light.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

RESPIRATORY PROTECTION
If this material is handled at elevated temperature or under mist forming conditions, NIOSH/MSHA approved respiratory protection equipment should be used.

EYE PROTECTION
Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

SKIN PROTECTION
This material is not expected to cause skin irritation based on available test data. However, skin contact should be avoided to prevent skin sensitization. Wear gloves and protective clothing as needed and practice good personal hygiene. Wash hands and other areas of exposed skin with mild soap and water before eating, drinking, smoking and when leaving work.

ENGINEERING CONTROLS
If handling results in aerosol or vapor generation, local exhaust ventilation is recommended.

OTHER HYGIENIC PRACTICES
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

OTHER WORK PRACTICES
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

9. PHYSICAL & CHEMICAL PROPERTIES

- APPEARANCE	viscous slurry
- COLOR	white / off white
- BOILING POINT	ND/A
- pH	ND/A
- FREEZING POINT	ND/A
- DRY POINT	ND/A
- VAPOR PRESSURE	negligible
- SPECIFIC GRAVITY	2.0 g/cm^3
- EVAPORATION RATE	negligible
- SOLUBILITY IN WATER	5 – 14 %
- PERCENT SOLIDS BY WEIGHT	65 – 80 %
- PERCENT VOLATILE	0 %
- VISCOSITY	ND/A

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10. STABILITY AND REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID (STABILITY)
High temperatures, localized heat sources (ie, drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing; strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS
Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

HAZARDOUS POLYMERIZATION
May occur.

CONDITIONS TO AVOID (POLYMERIZATION)
Leave appropriate headspace above surface level to provide Oxygen inhibition for best stability.

11. TOXICOLOGICAL INFORMATION

INHALATION
No significant signs or symptoms indicative of any adverse health hazard are expected to occur at standard conditions due to the low volatility of this material. However, aerosols, or vapors which may be generated at elevated processing temperatures, may cause respiratory tract irritation. Symptoms of irritation may include coughing, mucous production and shortness of breath.

EYE CONTACT -- PRIMARY ROUTE
May cause minor eye irritation. Symptoms may include excessive tearing, blinking and redness.

SKIN ABSORPTION -- PRIMARY ROUTE
Extensive/prolonged or repeated exposure to this material can result in significant absorption.

SKIN IRRITATION -- PRIMARY ROUTE
This material is not expected to cause skin irritation based on available test data. Although no appropriate human or animal health effects data is known to exist, this material may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure.

INGESTION
This material may be a slight health hazard if ingested in large quantities.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
No additional medical information found.

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12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms in the water; may cause harmful long-term effects in the aquatic environment.

TOXICITY
NDA

PERSISTENCE AND DEGRADABILITY
NDA

BIOACCUMULATION
Possible

MOBILITY IN THE SOIL
Hardly any

OTHER DETRIMENTAL EFFECTS
NDA

13. DISPOSAL CONSIDERATIONS

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED
Spilled or released material may polymerize and release heat/gases. Extinguish all ignition sources and ventilate area. Wear protective equipment during clean-up. Dike and recover large spill. Soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during cleanup. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements.

WASTE DISPOSAL METHODS
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It is the responsibility of the generator to determine at the time of disposal whether the material meets the criteria of a hazardous waste.
Comply with all applicable federal, state and local regulations. Use registered transporters. Disposal options include landfilling solids at permitted sites; fuel blending or incinerating liquids. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade; avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

14. TRANSPORT INFORMATION

Transport over land (ADR/RID)

UN number	No dangerous goods w.r.t. these transport regulations
Suitable	No dangerous goods w.r.t. these transport regulations
Shipping designation	
Transport hazard class	No dangerous goods w.r.t. these transport regulations
Packing class	No dangerous goods w.r.t. these transport regulations

Sea transport (IMDG)

UN number	No dangerous goods w.r.t. these transport regulations
Suitable	No dangerous goods w.r.t. these transport regulations
Shipping designation	
Transport hazard class	No dangerous goods w.r.t. these transport regulations
Packing class	No dangerous goods w.r.t. these transport regulations

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Airfreight

UN number	No dangerous goods w.r.t. these transport regulations
Suitable	No dangerous goods w.r.t. these transport regulations
Shipping designation	
Transport hazard class	No dangerous goods w.r.t. these transport regulations
Packing class	No dangerous goods w.r.t. these transport regulations

15. REGULATORY INFORMATION

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

- Directive 2012/18/EU
- Named dangerous substances
- ANNEX I None of the ingredients is listed.
- National regulations:
- Water hazard class: Water hazard class 2: hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

15.3 All chemical substances in this compound are listed, or are exempt from TSCA listing, comply with all applicable rules or orders under TSCA, are on the TSCA inventory, are not in Pre-manufacture Notification (PMN) status, are not bound by any Section 5 Significant New Use Rules or obligations, and are not limited/prohibited on any market uses.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases;

H302 Harmful if swallowed.
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H361 Suspected of damaging fertility or the unborn child
H401 Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects