

SAFETY DATA SHEET ALUMINIUM WEAR COMPOUND HARDENER

1. Identification

Product identifier

Product name ALUMINIUM WEAR COMPOUND HARDENER

Recommended use of the chemical and restrictions on use

Application Hardener.

Details of the supplier of the safety data sheet

Supplier

ITW Performance Polymers

Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 mail@itwpp.com

Emergency telephone number

Emergency telephone +44(0)1235 239 670 (24h)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 -

H361fd

Environmental hazards Aquatic Chronic 2 - H411

Human health Corrosive. Prolonged contact causes serious eye and tissue damage.

Label elements

Pictogram









Signal word

Danger

Hazard statements H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapor/ spray.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

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+P313 If exposed or concerned: Get medical advice/ attention.

P310 Immediately call a poison center/ doctor.

P312 Call a poison center/ doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains

TRIETHYLENETETRAMINE, 2-PIPERAZIN-1-YLETHYLAMINE, NONYLPHENOL

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

TRIETHYLENETETRAMINE	30-60%
CAS number: 112-24-3	

Classification

Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

2-PIPERAZIN-1-YLETHYLAMINE 5-10%

CAS number: 140-31-8

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

NONYLPHENOL 1-5%

CAS number: 25154-52-3

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 2 - H361fd Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Do not breathe vapor/spray. Avoid contact with eyes.

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Give plenty of water to drink. Get medical attention.

Skin Contact Remove affected person from source of contamination. Wash skin thoroughly with soap and

water. Get medical attention if irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes and get medical attention. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation The product contains a sensitizing substance.

Ingestion This product is corrosive. May cause chemical burns in mouth, esophagus and stomach.

Swallowing concentrated chemical may cause severe internal injury. May cause stomach pain

or vomiting.

Skin contact This product is strongly corrosive. The product contains a sensitizing substance. Contact with

concentrated chemical may cause severe skin damage. May cause an allergic skin reaction.

Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

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Eye contact This product is strongly corrosive. Contact with concentrated chemical may very rapidly cause

severe eye damage, possibly loss of sight. Risk of serious damage to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Extinguish with the following media: Water. Foam. Dry chemicals. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

Specific hazards Avoid breathing fire gases or vapors.

Advice for firefighters

Protective actions during

firefighting

Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses.

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

Special protective equipment for firefighters

clothing.

6. Accidental release measures

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. Provide adequate ventilation.

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled

discharges into watercourses must be reported immediately to the Environmental Agency or

other appropriate regulatory body.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste

disposal containers and seal securely. Containers with collected spillage must be properly

labeled with correct contents and hazard symbol.

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

7. Handling and storage

Precautions for safe handling

Usage precautionsUse only in well-ventilated areas. Provide adequate ventilation. Avoid inhalation of vapors.

Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Good personal hygiene

procedures should be implemented.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Store away from

incompatible materials (see Section 10).

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

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

Exposure controls

Protective equipment









Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protectionThe following protection should be worn: Chemical splash goggles or face shield. Tight-fitting

safety glasses. Personal protective equipment for eye and face protection should comply with

OSHA 1910.133.

Hand protection Wear protective gloves made of the following material: Rubber or plastic. It is recommended

that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove

manufacturers.

Other skin and body

protection

Color

Odor

Avoid contact with skin. Wear apron or protective clothing in case of contact.

Hygiene measures Provide eyewash station and safety shower. Keep away from food, drink and animal feeding

stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving

workplace.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator

fitted with the following cartridge: Gas filter, type A2. Organic vapor filter. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Check that the respirator fits tightly and the filter is changed regularly. Half mask and quarter mask respirators with replaceable filter cartridges should comply with

OSHA 1910.134.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Paste.

pH (concentrated solution): 10.5 @ 20 °C

Cream.

Amine.

Initial boiling point and range >232°C @

Flash point >93°C

Vapor pressure <0.01 mmHg @ °C

Relative density 0.98 @ 20 °C °C

Solubility(ies) Soluble in water.

Other information Not available.

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10. Stability and reactivity

Reactivity Acids. Strong oxidizing agents.

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

Possibility of hazardous

reactions

Not available.

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods

of time. Avoid exposure to high temperatures or direct sunlight.

Materials to avoid Avoid contact with the following materials: Acids. Oxidizing agents.

Hazardous decomposition

products

Fire or high temperatures create: Nitrous gases (NOx). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of: Ammonia or

amines.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,929.82

Inhalation Vapor from this product may be hazardous by inhalation.

Ingestion Harmful if swallowed.

Skin Contact May be absorbed through the skin. Prolonged or repeated exposure may cause severe

irritation. May cause sensitisation by skin contact. May cause sensitization or allergic

reactions in sensitive individuals.

Eye contact Risk of serious damage to eyes.

Acute and chronic health

hazards

Causes burns.

Route of entry Inhalation Skin absorption Ingestion. Skin and/or eye contact

Target Organs Prolonged or repeated exposure may cause the following adverse effects: Risk of serious

damage to eyes. May cause damage to the liver. May cause damage to the kidneys. Central

and/or peripheral nervous system damage.

12. Ecological Information

Ecotoxicity Avoid release to the environment. The product contains substances which are toxic to aquatic

organisms and which may cause long-term adverse effects in the aquatic environment.

Toxicity Very toxic to aquatic organisms.

Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product is soluble in water. Do not discharge into drains or watercourses or onto the

ground.

Other adverse effects

Other adverse effects Not available.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Waste class 08 04 99

14. Transport information

UN Number

No information required.

UN No. (TDG) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (DOT) 1760

UN proper shipping name

No information required.

Proper shipping name (TDG) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE, NONYL PHENOL)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE, NONYL PHENOL)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE, NONYL PHENOL)

Proper shipping name (DOT) CORROSIVE LIQUID, N.O.S. (TRIETHYLENETETRAMINE, NONYL PHENOL)

Transport hazard class(es)

No information required.

TDG class 8

TDG label(s) 8

IMDG Class 8

ICAO class/division 8

Transport labels



Packing group

No information required.

TDG Packing Group Ш

Ш IMDG packing group

ICAO packing group Ш

DOT packing group Ш

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

No information required.

EmS F-A, S-B

Transport in bulk according to No information required. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

16. Other information

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Revision 5

Supersedes date 6/9/2015

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.