

SAFETY DATA SHEET STAINLESS STEEL PUTTY (ST) HARDENER.

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

1.1. Product identifier

Product name STAINLESS STEEL PUTTY (ST) HARDENER.

Product number X0046

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

Identified uses Hardener.

1.3. 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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

Human health Corrosive to skin and eyes. Corrosive. Prolonged contact causes serious eye and tissue

damage.

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

STAINLESS STEEL PUTTY (ST) HARDENER.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor.

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

Contains DIMER/TOFA, reaction products with TETA, TRIETHYLENETETRAMINE

Supplementary precautionary

statements

P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

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

P273 Avoid release to the environment.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIMER/TOFA, reaction products with TETA

30-60%

CAS number: 68082-29-1

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411

TRIETHYLENETETRAMINE

30-60%

CAS number: 112-24-3 EC number: 203-950-6 REACH registration number: 01-

2119487919-13-0000

Classification

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

STAINLESS STEEL PUTTY (ST) HARDENER.

TITANIUM DIOXIDE 1-5%

CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-

2119489379-17-0000

Classification
Not Classified

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Do not breathe vapour/spray. Avoid contact with eyes. In case of accident or if you feel

unwell, seek medical advice immediately (show the label where possible).

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.

4.2. 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.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Water. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Avoid breathing fire gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

Keep up-wind to avoid fumes. Control run-off water by containing and keeping it out of sewers

and watercourses.

Special protective equipment

for firefighters

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

clothing.

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. Provide adequate ventilation.

6.2. 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.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Mechanical ventilation or local exhaust ventilation may be required. Avoid contact with skin

and eyes. Avoid eating, drinking and smoking when using the product. Good personal hygiene

procedures should be implemented.

7.2. 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).

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

Occupational exposure limits

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): 10 mg/m3 total dust

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

TRIETHYLENETETRAMINE (CAS: 112-24-3)

DNEL Workers - Inhalation; Long term systemic effects: 1 mg/m³

Workers - Inhalation; Short term systemic effects: 5380 mg/m³ Workers - Dermal; Long term systemic effects: 0.57 mg/kg/day

8.2. Exposure controls

Protective equipment









Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body

protection

Avoid contact with skin. Wear chemical protective suit.

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Hygiene measures 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. 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. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard

EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Cream.

Odour Amine.

pH pH (concentrated solution): 10.5 @ 25 °C

Initial boiling point and range 232°C @

Flash point >93°C

Vapour pressure <0.1 mmHg @ °C

Relative density 0.98 @ 20 °C °C

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Strong oxidising agents. Acids.

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

Not available.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents. Avoid contact with acids.

10.6. Hazardous decomposition products

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

STAINLESS STEEL PUTTY (ST) HARDENER.

Acute toxicity - dermal

ATE dermal (mg/kg) 2,772.53

Skin contact

Harmful in contact with skin. Causes burns. May cause sensitisation by skin contact. The product contains a small amount of sensitising substance. May cause sensitisation or allergic

reactions in sensitive individuals.

Eye contact May cause severe eye irritation.

Acute and chronic health

hazards

Causes burns.

Route of entry Inhalation Ingestion. Skin absorption

Target organs Prolonged or repeated exposure may cause the following adverse effects: Liver Kidneys

Respiratory system, lungs Central nervous system

SECTION 12: Ecological Information

Ecotoxicity Avoid release to the environment. The product contains a substance which is harmful to

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

environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability Avoid or minimise the creation of any environmental contamination. Avoid the spillage or

runoff entering drains, sewers or watercourses.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Not considered mobile.

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 Not available.

SECTION 13: Disposal considerations

13.1. 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

SECTION 14: Transport information

General No other information known.

STAINLESS STEEL PUTTY (ST) HARDENER.

14.1. UN number

UN No. (ADR/RID) 2259
UN No. (IMDG) 2259
UN No. (ICAO) 2259

14.2. UN proper shipping name

Proper shipping name

TRIETHYLENETETRAMINE

(ADR/RID)

Proper shipping name (IMDG) TRIETHYLENETETRAMINE
Proper shipping name (ICAO) TRIETHYLENETETRAMINE
Proper shipping name (ADN) TRIETHYLENETETRAMINE

14.3. Transport hazard class(es)

ADR/RID class 8
ADR/RID label 8
IMDG class 8
ICAO class/division 8

Transport labels



14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-A, S-B

Emergency Action Code 2X
Hazard Identification Number 80

(ADR/RID)

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

Transport in bulk according to No information required.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

STAINLESS STEEL PUTTY (ST) HARDENER.

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 03/04/2018

Revision 16

Supersedes date 25/04/2017

Hazard statements in full H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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.