

SAFETY DATA SHEET

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

Product identifier

Trade name or designation

of the mixture

Super Sap ONF Hardener

Identification Number

Not applicable.

Registration number

Synonyms

None.

Date of first issue

05 Mar 2015

Version number **Revision date**

01

Supersedes date

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

Polyamide for curing epoxy resins

Identified uses

Uses advised against

None known.

Details of the supplier of the safety data sheet Company name

Entropy Resins

Address

30621 San Antonio St.

Havward, CA 94544 USA

Contact person: Diosdado Rey Banatao

Telephone

e-mail

info@entropyresins.com

Emergency telephone

24/7 Emergency Hotline: 1 (760) 476-3962 Global Response Access Code: 333178

Number

SDS number

12_ONF01_V1_EU

Reference number

Not available.

Section 2: Hazards identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification

Xi;R36/38, R43, R52-53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation

Category 2

Causes skin irritation.

Serious eye damage/eye irritation Skin sensitization

Category 2 Category 1 Causes serious eye irritation. May cause an allergic skin

reaction.

Environmental hazards

long-term hazard

Hazardous to the aquatic environment -

Category 3

Harmful to aquatic life with long

lasting effects.

Hazard summary

Physical hazards

Not classified for physical hazards.

Health hazards

Irritating to eyes and skin. May cause sensitisation by skin contact.

Environmental hazards

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Specific hazards

Ingestion may cause irritation and malaise.

Main symptoms

Symptoms include itching, burning, redness, and tearing of eyes. Rash.

Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Polyamide resin, Cashew Shell Nut Liquid, Triethylenetetramine

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Signal word Warning

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful **Hazard statements**

to aquatic life with long lasting effects.

Precautionary statements

Prevention Wear protective gloves. Wear eye/face protection. Avoid breathing mist/vapours/spray. Wash

thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Response IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store as indicated in Section 7.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Supplemental label information

Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

CAS-No. / EC No. REACH Registration No. INDEX No. Chemical name % Notes

Polyamide resin >98 N/A

Classification: DSD: Xi;R36/38, R43, R52-53

CLP: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 3;H412

Cashew Shell

Nut Liquid <20 8007-24-7

232-355-4

Classification: DSD: Xi;R36/38, R43, N;R51-53

CLP: Acute Tox. 4;H312,Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Damage; H318

Triethylenetetramine 1 - 2.5112-24-3 612-059-00-5

203-950-6

Classification: **DSD:** C;R34, Xn;R21, R43, R52-53

CLP: Acute Tox. 4;H312, Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Chronic 3;H412

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in Composition comments

percent by volume.

The full text for all R- and H-phrases is displayed in section 16.

Section 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves.

Description of first aid measures

Inhalation Move to fresh air. Get medical attention if any discomfort occurs.

Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Get medical attention if irritation develops and persists. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Never give anything by mouth to an unconscious person. Get medical attention if

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any discomfort occurs. If ingestion of a large amount does occur, call a poison control centre immediately.

Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special treatment needed

Symptoms include itching, burning, redness, and tearing of eyes. Rash.

Treat symptomatically.

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Section 5: Firefighting measures

General fire hazards May burn, but does not ignite readily.

Extinguishing media

Suitable extinguishing

media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in

the workplace.

Special firefighting

procedures

Water runoff can cause environmental damage.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin and eyes. See Section 8 for personal protective equipment.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

Environmental precautions Do not contaminate water. Avoid release to the environment. Refer to special instructions/safety

data sheets.

Methods and material for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills in original containers for re-use.

Reference to other sections

See Section 8 for personal protective equipment.

For waste disposal, see Section 13.

Section 7: Handling and storage

Precautions for safe handling

Provide adequate ventilation. Avoid contact with skin and eyes. Wear respiratory protection during operations where spraying or misting occurs. Use Personal Protective Equipment recommended in section 8 of the MSDS. Change contaminated clothing. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from incompatible materials.

Specific end use(s)

Compositions for the building and civil engineering industries e.g. flooring compounds, primers, adhesives, mortars, joints and grouts. Offshore & Marine applications.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

No exposure limits noted for the ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

Follow standard monitoring procedures.

procedures

DNEL

Not available.

PNFC

Not available.

Exposure controls

Appropiate engineering controls

Provide adequate ventilation.

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Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in

> discussion with the supplier of the personal protective equipment. Private clothes and working clothes should be kept separately. Make sure to provide adequate control by applying the

"COSHH Essentials" procedure. Wear approved safety goggles.

Eye/face protection

Skin protection

- Hand protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is

advisable. Use protective gloves made of: Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL).

Suitable gloves can be recommended by the glove supplier.

- Other Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection No personal respiratory protective equipment normally required. In case of inadequate ventilation

or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2).

Observe special requirements if using the product for spraying.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking and/or smoking. Routinely wash work clothing to remove

contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Viscous liquid. Amber.

Physical state Liquid.

> **Form** Viscous liquid.

Amber. Colour

Odour Characteristic. Not available. Odour threshold Not applicable. Not available.

Melting point/freezing

point

Not available.

Boiling point, initial boiling point, and boiling range

> 100 °C (> 212 °F) Flash point > 200 °C (> 392 °F) **Auto-ignition temperature**

Flammability (solid, gas) Not available. Not available. Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available.

Not applicable. Oxidising properties Not applicable. Explosive properties **Explosive properties** Not applicable. Not applicable. Vapour pressure Not applicable. Vapour density Not applicable. **Evaporation rate** Relative density Not available.

0.97 - 1.2 g/cm3 @ 20 °C Density

Solubility Not available. Partition coefficient Not available.

(n-octanol/water) Decomposition

Not available.

temperature

Not applicable. **Bulk density** Pour point Not applicable. **Viscosity** Not available. Not available. VOC (Weight%) Not available. Percent volatile

Super Sap ONF Hardener SDS UK Other information No relevant additional information available.

Section 10: Stability and reactivity

Reactivity Reacts with oxidising agents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Polymerises exothermically with amines, mercaptens and Lewis acids at ambient temperature and above. Polymerises in contact with bases (eg caustic soda), ammonia, primary and

secondary amines, alcohol's and acids.

Conditions to avoid Contact with incompatible materials. Heat, flames and sparks. Avoid temperatures exceeding the

flash point.

Incompatible materials Caustic soda. Strong oxidising agents.

Hazardous decomposition

products

None under normal temperatures and pressures.

Section 11: Toxicological information

General information Persons with pre-existing skin disorders may be more susceptible to the effects of the product.

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Symptoms include itching, burning, redness, and tearing of eyes. Rash. **Symptoms**

Information on toxicological effects

Acute toxicity Ingestion may cause irritation and malaise. Components **Test results**

Acute Oral LD50 Rat: 15 g/kg Polyamide resin (N/A)

Skin corrosion/irritation May cause redness and pain.

Serious eye damage/eye

irritation

Exposed may experience eye tearing, redness, and discomfort.

Respiratory sensitization Not available.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Positive in vitro, but negative in vivo assays.

Not classified. Carcinogenicity Not available. Reproductive toxicity Not available. Specific target organ

toxicity - single exposure

Specific target organ toxicity - repeated

exposure

Not available.

Aspiration hazard Not applicable.

Mixture versus substance

information

No additional adverse health effects noted.

Not available Other information

Section 12: Ecological information

No toxicity data noted for the ingredient(s). **Toxicity** Persistence and The product is not readily biodegradable.

degradability

Bioaccumulative potential Has the potential to bioaccumulate.

Mobility The product is insoluble in water and will sediment in water systems.

Environmental fate -

Partition coefficient

Not available

Not available Mobility in soil Results of PBT and Not available.

vPvB assessment

Other adverse effects Harmful to aquatic life with long lasting effects.

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Section 13: Disposal considerations

Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

EU waste code 16 05 08*

Disposal methods/information This material and its container must be disposed of as hazardous waste. Do not discharge into

drains, water courses or onto the ground. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and

material characteristics at time of disposal.

Section 14: Transport information

IATA Information

Shipping Name: Polyamines, liquid, corrosive, n.o.s. (m-Xylendiamine, Isophoronediamine)

UN #: 2735 Hazard Class: 8 Packing Group: III

ICAO Information

Shipping Name: Polyamines, liquid, corrosive, n.o.s. (m-Xylendiamine, Isophoronediamine)

UN #: 2735 Hazard Class: 8 Packing Group: III

IMDG Information

Shipping Name: Polyamines, liquid, corrosive, n.o.s. (m-Xylendiamine, Isophoronediamine)

UN #: 2735 Hazard Class: 8 Packing Group: III

Section 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution

Emission Registery (EPER)

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Other regulations Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work. This Safety Data Sheet complies

with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations Not available.

Chemical Safety Assessment No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations DNEL: Derived No-Effect Level.

> PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioccumulative.

References Not available.

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Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

R21 Harmful in contact with skin.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R52 Harmful to aquatic organisms.

R53 May cause long-term adverse effects in the aquatic environment.

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 H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

Training information

Not available.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently

available.

Issue date 05-March-2015 **Revision date** 05-March-2015 **Print date** 05-March-2015

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