

SAFETY DATA SHEET

Suresave Optix Pot Plus

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Suresave Optix Pot Plus

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

Identified uses Aluminium dishwasher detergent wash.

1.3. Details of the supplier of the safety data sheet

Supplier Sanserv Distribution Ltd
 Unit 44
 Briarhill Business Park
 Ballybrit
 County Galway
 Ireland
 1850 211 409
 00353 91 773 446
 sales@sanserv.com
 Contact Person SDS Contact: DCM Compliance, info@dcmcompliance.com

1.4. Emergency telephone number

Emergency Contact Number :00353 91 773 445

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H302;Skin Corr. 1A - H314;STOT SE 3 - H335
Environment	Not classified.

Classification (1999/45/EEC)

Xn;R22. C;R35. Xi;R37.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains disodium metasilicate pentahydrate
 SODIUM HYDROXIDE

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe gas, fume, vapours or spray.

Suresave Optix Pot Plus

P305+351+338	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 or doctor/physician.
Supplementary Precautionary Statements	
P270	Do not eat, drink or smoke when using this product.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

2.3. Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

disodium metasilicate pentahydrate	30-50%
CAS-No.: 10213-79-3	EC No.: 600-279-4
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 STOT SE 3 - H335	Classification (67/548/EEC) Xn;R22. C;R34. Xi;R37.
SODIUM HYDROXIDE	1-10%
CAS-No.: 1310-73-2	EC No.: 215-185-5
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

General first aid, rest, warmth and fresh air.

Inhalation

Move into fresh air and keep at rest.

Ingestion

Immediately rinse mouth and provide fresh air. Never give liquid to an unconscious person. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact

Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

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

Suresave Optix Pot Plus

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

May cause chemical burns in mouth and throat. Coughing, sneezing and laboured breathing.

Ingestion

May cause severe burns with pain, vomiting, diarrhea and possibly severe general effect (shock). Risk of permanent damage due to scarring of the esophagus and stomach.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

Causes severe eye burns. Splashes may cause serious eye damage Prolonged eye contact is particularly serious and may cause permanent damage.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray.

Unsuitable extinguishing media

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

When heated, toxic and corrosive vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

If possible, fight fire from protected position. Keep up-wind to avoid fumes. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

When dealing with a spillage, please consult the section relating to suitable protective measures. Stop leak if possible without risk. DO NOT touch spilled material! Collect it mechanically in suitable containers. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Suresave Optix Pot Plus

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid contact with skin and eyes. Do not use contact lenses. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid eating, drinking and smoking when using the product. Dishwasher detergent reacts violently with acids (e.g. descaling). Attacks some metals as well as wood, leather and textiles.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright. Store in locked, well ventilated room and isolated from acids. Store away from metals.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

Use only according to directions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SODIUM HYDROXIDE	OEL	No std.	No std.	No std.	2 mg/m ³	

OEL = Occupational Exposure Limit.

Ingredient Comments

Ireland, Occupational Exposure Limits 2011

8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation.

Respiratory equipment

Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Protective gloves complying with EN 374. Wear protective gloves (neoprene, PVC, nitrile, latex). Nitrile rubber (glove thickness: 0.11mm, Break through time: 480min)

Eye protection

Wear safety goggles in accordance with EN166. Eye protection equipment should be tested and approved according to regulations applicable, like NIOSH (US) or EN 166 (EU).

Other Protection

Provide eyewash station and safety shower.

Hygiene measures

Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Take off immediately all contaminated clothing. Avoid contact with skin, eyes and clothing.

Skin protection

Wear apron or protective clothing in case of splashes.

Environmental Exposure Controls

Keep container tightly sealed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Pale Yellow
Odour	Faint Odour
Solubility	Completely soluble in water
Initial boiling point and boiling range (°C)	100 (°C)
Melting point (°C)	50 (°C)
Relative density	1500 kg/m ³
Bulk Density	No information available.
Vapour density (air=1)	No information available.
Vapour pressure	No information available.
Evaporation rate	No information available.
Evaporation Factor	No information available.
pH-Value, Diluted Solution	10 0.1
Viscosity	No information available.
Solubility Value (G/100G H₂O@20°C)	No information available.
Decomposition temperature (°C)	No information available.
Odour Threshold, Lower	No information available.
Odour Threshold, Upper	No information available.
Flash point (°C)	Not applicable.
Auto Ignition Temperature (°C)	No information available.
Flammability Limit - Lower(%)	No information available.
Flammability Limit - Upper(%)	No information available.
Partition Coefficient (N-Octanol/Water)	Not known.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

10.2. Chemical stability

Strong alkaline solution which attacks aluminium, lead, tin, zinc and their alloys and galvanised iron. The reaction occurs with formation of hydrogen which may cause an explosion.

10.3. Possibility of hazardous reactions

Suresave Optix Pot Plus

See section 10.1 for information on hazardous reactions.

Hazardous Polymerisation

Unknown.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Do not mix with other chemicals.

10.5. Incompatible materials

Materials To Avoid

Do not mix with other chemicals. Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

10.6. Hazardous decomposition products

When heated, vapours/gases hazardous to health may be formed. During fire, toxic gases (CO, CO₂) are formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No toxicological information for the overall finished product.

Skin Corrosion/Irritation:

Corrosive

Extreme pH.

No information available.

Corrosive

Serious eye damage/irritation:

Corrosive

Respiratory or skin sensitisation:

Respiratory sensitisation

No information available.

Skin sensitisation

No information available.

Germ cell mutagenicity:

Genotoxicity - In Vitro

No information available.

Genotoxicity - In Vivo

No information available.

Carcinogenicity:

Carcinogenicity

No information available.

IARC Carcinogenicity

Not listed.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

No information available.

Reproductive Toxicity - Development

No information available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

No information available.

Specific target organ toxicity - repeated exposure:

Suresave Optix Pot Plus

STOT - Repeated exposure

No information available.

Inhalation

May cause chemical burns in mouth and throat. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Very corrosive and leaves wounds that are difficult to heal.

Eye contact

Causes severe burns. May cause permanent impairment of vision.

Toxicological information on ingredients.

disodium metasilicate pentahydrate (CAS: 10213-79-3)

Acute toxicity:

Acute Toxicity (Oral LD50)

847 mg/kg Rat

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.1. Toxicity

No ecological toxicity available on the overall finished product.

Acute Toxicity - Fish

LC50 96 hours 45 mg/l Onchorhynchus mykiss (Rainbow trout)

Sodium Hydroxide

EC 50, 48 Hrs, Daphnia, mg/l EC 50, 48 Hrs, Daphnia, 30 mg/l

12.2. Persistence and degradability

Degradability

This product is readily biodegradable.

> 28 days Degradation (90%)

OECD 301C

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Partition coefficient

Not known.

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not discharge into water/traction, soil or drains. Follow local regulations when disposing of waste.

Suresave Optix Pot Plus

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	3262
UN No. (IMDG)	3262
UN No. (ICAO)	3262

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate pentahydrate, SODIUM HYDROXIDE)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

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 No. (ADR)	80
Tunnel Restriction Code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Suresave Optix Pot Plus

Approved Code Of Practice

2011 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision	1
Risk Phrases In Full	
R34	Causes burns.
R35	Causes severe burns.
R22	Harmful if swallowed.
R37	Irritating to respiratory system.
Hazard Statements In Full	
H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.

Disclaimer

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.