

SAFETY DATA SHEET

1. Identification

Product identifier Salt Terminator® Engine Flush, Cleaner & Corrosion Inhibitor

Other means of identification

Product code SX32, SX32M, SX128

Recommended use Engine flush and corrosion inhibitor

Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsCarcinogenicityCategory 2Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Suspected of causing cancer. Harmful to aquatic life. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Use with adequate ventilation. Open doors and windows or use other means to

Category 3

ensure a fresh air supply during use and while product is drying. Wear protective

gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response If exposed or concerned: Get medical attention.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % | |
|-------------------------------|--------------------------|------------|---------|--|
| Water | | 7732-18-5 | 80 - 90 | |
| Sodium nitrite | | 7632-00-0 | 10 - 20 | |
| Coconut diethanolamide | | 68603-42-9 | 1 - 3 | |
| Sodium Laureth Sulfate | | 9004-82-4 | 1 - 3 | |
| Diethanolamine | | 111-42-2 | < 1 | |
| Alcohols, C12-15, Ethoxylated | | 68131-39-5 | < 0.2 | |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

| Inhalation | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist. |
|--|---|
| Skin contact | Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention if symptoms occur. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. |

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Avoid

5. Fire-fighting measures

| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
|---|---|
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

Personal precautions,

| protective equipment and emergency procedures | breathing gas, mist or vapor. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|--|
| Methods and materials for containment and cleaning up | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. |
| 7 Handling and stages | |

7. Handling and storage

| Precautions for safe handling | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label. |
|--|--|
| Conditions for safe storage, including any incompatibilities | Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

ComponentsTypeValueFormDiethanolamine (CASTWA1 mg/m3Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards
Components
Type

ComponentsTypeValueDiethanolamine (CAS
111-42-2)TWA15 mg/m3

3 ppm

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

Exposure guidelines

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2)

Can be absorbed through the skin.

Appropriate engineering

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If

exposure limits have not been established, maintain airborne levels to an acceptable level.

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Neoprene.

Other Wear suitable protective clothing.

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Blue.

Odor Odorless.

Odor threshold Not available.
pH 8.8 - 9.8

Melting point/freezing point 32 °F (0 °C)

Initial boiling point and boiling 212 °F (100 °C)

range

None.

Flash point None.

Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

3.3 % estimated

(%)

Flammability limit - upper 19 % estimated

(%)

19.4 hPa estimated Vapor pressure

Not available. Vapor density

1.09 Relative density Solubility (water) Soluble. Partition coefficient

(n-octanol/water)

Not available.

363 °F (183.9 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. Not available. Viscosity (kinematic) 81.8 % estimated Percent volatile

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Strong oxidizing agents. Strong acids. Incompatible materials Hazardous decomposition Nitrogen oxides (NOx). Sodium oxides.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Prolonged skin contact may cause temporary irritation. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Respiratory sensitization

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not classified.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Coconut diethanolamide (CAS 68603-42-9) 2B Possibly carcinogenic to humans. Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

| Product | | Species | Test Results |
|--|------|---------|-----------------------------------|
| Salt Terminator® Engine Flush, Cleaner & Corrosion Inhibitor | | | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 153.9463 mg/l, 48 hours estimated |
| Fish | LC50 | Fish | 232.2822 mg/l, 96 hours estimated |

Test Results

Alcohols, C12-15, Ethoxylated (CAS 68131-39-5)

Aquatic

Acute

Components

Crustacea EC50 Water flea (Daphnia magna) 0.4 - 0.75 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 2.7 mg/l, 96 hours

Species

Diethanolamine (CAS 111-42-2)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 61.8 - 86.04 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours

Sodium Laureth Sulfate (CAS 9004-82-4)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 2.43 - 4.01 mg/l, 48 hours

Sodium nitrite (CAS 7632-00-0)

Aquatic

Crustacea EC50 Greasyback shrimp (Metapenaeus 16.14 - 26.61 mg/l, 48 hours

ensis)

Fish LC50 Rainbow trout, donaldson trout 0.19 mg/l, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability No data is

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Diethanolamine -1.43 Sodium nitrite -3.7

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

^{*} Estimates for product may be based on additional component data not shown.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Sodium nitrite (CAS 7632-00-0)

1.0 % One-Time Export Notification only.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Sodium nitrite (CAS 7632-00-0)

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium nitrite (CAS 7632-00-0) Listed.

CERCLA Hazardous Substances: Reportable quantity

Sodium nitrite (CAS 7632-00-0) 100 LBS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Section 311/312 Immediate Hazard - No Hazard categories Delayed Hazard - Yes Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Coconut diethanolamide (CAS 68603-42-9)

Diethanolamine (CAS 111-42-2)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. New Jersey Worker and Community Right-to-Know Act

Sodium nitrite (CAS 7632-00-0)

Ethanol (CAS 64-17-5)

US. Massachusetts RTK - Substance List

Sodium nitrite (CAS 7632-00-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium nitrite (CAS 7632-00-0)

Diethanolamine (CAS 111-42-2)

Sodium sulfate (CAS 7757-82-6)

US. Rhode Island RTK

Sodium nitrite (CAS 7632-00-0)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988 Coconut diethanolamide (CAS 68603-42-9) Listed: June 22, 2012

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR

0.3 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

VOC content (CA)

VOC content (OTC)

Not regulated

0.3 %

0.3 %

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| | | |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-22-2015 **Prepared by** Allison Cho

Version # 01

United States & Puerto Rico

Further information CRC # 848
HMIS® ratings Health: 1*
Flammability: 0

Physical hazard: 0
Personal protection: A

NFPA ratings Health: 1

Flammability: 0 Instability: 0

NFPA ratings



Yes

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