

SAFETY DATA SHEET

1. Identification

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

Other means of identification

Product code No. SX128 (Item# 1007968)

Recommended use Engine flush and corrosion inhibitor

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

 General Information
 215-674-4300

 Technical Assistance
 800-521-3168

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Not classified.

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

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Suspected of causing cancer. 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

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 advice/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

Material name: Salt Terminator® Engine Flush, Cleaner & Corrosion Inhibitor

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Chemical name	Common name and synonyms	CAS number	%
sodium nitrite		7632-00-0	10 - 20
coconut diethanolamide		68603-42-9	1 - 3
sodium laureth sulfate		9004-82-4	1 - 3
sodium xylenesulphonate		1300-72-7	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

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Inhalation

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.

Eve 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

Provide general supportive measures and treat symptomatically.

General information 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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. 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

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

Form Components Value Type **TWA** diethanolamine (CAS 1 mg/m3 Inhalable fraction and 111-42-2) vapor.

US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value TWA diethanolamine (CAS 15 mg/m3 111-42-2)

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

controls

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

Individual protection measures, such as personal protective equipment

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

Skin protection

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

Wear suitable protective clothing. Other

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

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. Liquid. **Form** Color Blue. Odor Odorless. Odor threshold Not available. 8.8 - 9.8Melting point/freezing point 32 °F (0 °C) Initial boiling point and boiling 212 °F (100 °C)

range

None. Flash point **Evaporation rate** Slow.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

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19.6 hPa estimated Vapor pressure

Not available. Vapor density

Relative density 1.09 Solubility (water) Soluble. Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature 608 °F (320 °C) estimated

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

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. Incompatible materials Strong oxidizing agents. Strong acids. Hazardous decomposition Nitrogen oxides (NOx). Sodium oxides.

products

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

May be harmful if swallowed. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not classified.

Components **Species Test Results**

alcohols, C12-15, ethoxylated (CAS 68131-39-5)

Acute Dermal

LD50 Rabbit < 5000 mg/kg

Oral

LD50 Rat 1600 - 2700 mg/kg

coconut diethanolamide (CAS 68603-42-9)

Acute Oral

LD50 Rat > 5000 mg/kg

diethanolamine (CAS 111-42-2)

Acute Dermal

LD50 Rabbit 8180 mg/kg

Oral

LD50 Rat 680 mg/kg

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Components Species Test Results

sodium nitrite (CAS 7632-00-0)

Acute Inhalation

LC50 Rat 5.5 mg/m³, 4 hours

Oral

LD50 Rat 88 mg/kg

sodium xylenesulphonate (CAS 1300-72-7)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 3356 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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.

Components Species Test Results

alcohols, C12-15, ethoxylated (CAS 68131-39-5)

Aquatic

Acute

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

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

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

Test Results Components **Species**

sodium nitrite (CAS 7632-00-0)

Aquatic

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

ensis)

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

(Oncorhynchus mykiss)

sodium xylenesulphonate (CAS 1300-72-7)

Aquatic Acute

FC50 Crustacea > 1020 mg/l, 48 hours Water flea (Daphnia magna)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

diethanolamine -1.43sodium nitrite -3.7

No data available. Mobility in soil

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.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

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.

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.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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)

diethanolamine (CAS 111-42-2) Listed. sodium nitrite (CAS 7632-00-0) Listed.

CERCLA Hazardous Substances: Reportable quantity

100 LBS diethanolamine (CAS 111-42-2) sodium nitrite (CAS 7632-00-0) 100 LBS

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

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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)

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

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

diethanolamine (CAS 111-42-2) sodium nitrite (CAS 7632-00-0)

US. Massachusetts RTK - Substance List

diethanolamine (CAS 111-42-2) sodium nitrite (CAS 7632-00-0)

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

diethanolamine (CAS 111-42-2) sodium nitrite (CAS 7632-00-0)

US. Rhode Island RTK

diethanolamine (CAS 111-42-2)

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 Listed: July 1, 1987 ethylene oxide (CAS 75-21-8) fatty acids, coco, compds. with diethanolamine (CAS Listed: June 22, 2012 61790-63-4)

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

ethylene oxide (CAS 75-21-8) Listed: August 7, 2009 methanol (CAS 67-56-1) Listed: March 16, 2012 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

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

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 0.3 %

51.100(s))

Not regulated **Consumer products**

(40 CFR 59, Subpt. C)

State

Consumer products Not regulated

VOC content (CA) 0.3 % 0.3 % VOC content (OTC)

International Inventories

Country(s) or region

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

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

Inventory name

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

Philippines

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

Issue date 08-22-2017 **Revision date** 08-22-2017 Prepared by Allison Yoon

Version # 02

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

Physical hazard: 0 Personal protection: A

Health: 1 NFPA ratings

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries, Inc..

On inventory (yes/no)*

No