Material Safety Data Sheet

Degreaser Powder BONDSOL (RXSOL-94-9421-025)

1. Product and Company Identifaction

Product Name	Degreaser Powder BONDSOL
Part Number	RXSOL-94-9421-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

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2. Composition / informationon ingredients

Substances	Not applicable

Mixtures

Component		Classification	Concentration
Borax Pentahydrate			
REACH No. Index number CAS No. EC No.	01-2119490790-32-XXXX 005- 011-02-9 12179-04-3 215-540-4	3.7/1B Repr. 1B H360 3.3/2 Eye Irrit. 2 H319	30-50 %
Sodium Nitrate			
REACH No. CAS No. EC No.	01-2119488221-41-XXXX 7631-99-4 231-554-3	2.13/2 Ox. Liq. 2 H272 3.3/2 Eye Irrit. 2 H319	1-5 %
Fatty Alcohol (C13) Ethoxylated			
CAS No.	6911-36-5	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318	1-5 %
Sodium Nitrite			
REACH No. Index number CAS No. EC No.	01-2119471836-27-XXXX 007- 010-00-4 7632-00-0 231-555-9	2.14/3 Ox. Sol. 3 H272 3.3/2 Eye Irrit. 2 H319 4.1/A1 Aquatic Acute 1 H400 3.1/3/Oral Acute Tox. 3 H301	1-5 %
2-(2-butoxyethoxy)ethanol			
REACH No. Index number EC No.	01-2119475104-44-XXXX 603- 096-00-8 203-961-6	3.3/2 Eye Irrit. 2 H319	1-5 %
Alcohol (C9-11) Polyglycolether			
CAS No.	68439-46-3	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318	1-5 %
Dodecyldimethylamine-oxide			
CAS No. EC No.	1643-20-5 216-700-6	3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400	0.1-1.0 %

Declaration of ingredients according to Detergent Regulation 648/2004

Phosphates	> 30 %
Non-ionic surfactants	5 - 15 %
Amphoteric surfactants	5 %

For the complete text of the hazard and risk phrases refer to paragraph 16

3. Hazards Identification

Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)	Danger, Eye Dam. 1, Causes serious eye damage. Danger, Repr. 1B, May damage fertility or the unborn child
Adverse physicochemical, human health and environmental effects	The product is harmful following acute exposure to it and poses a serious health threat if ingested. If brought into contact with the eyes, the product causes considerable irritation which can last for over 24 hours. This product is toxic - it can impair human fertility. This product is toxic - it can be injurious to the foetus

Label elements

Signal Word	Danger
Hazard Statements	H318 Causes serious eye damage. H360 May damage fertility or the unborn child.
Precautionary Statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/clothing and eye/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 IF exposed or concerned: Get medical advice/attention. P310 Immediately call a POISON CENTER or doctor. P501 Dispose of contents/container in accordance with applicable regulations.
Special Provisions	None
Contents	Borax Pentahydrate Fatty alcohol (C13) ethoxylated Alcohol (C9-11) poly glycol ether
Other hazards	No other hazards

4. First Aid Measures

In case of skin contact	Immediately take off all contaminated clothing. Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. OBTAIN IMMEDIATE MEDICAL ATTENTION. Wash thoroughly the body (shower or bath). Remove contaminated clothing immediately and dispose off safely.
In case of eyes contact	After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately. Protect uninjured eye
In case of Ingestion	Give nothing to eat or drink.
In case of Inhalation	Remove casualty to fresh air and keep warm and at rest.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	In case of accident or un wellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. Fire-fighting Measures

Suitable extinguishing media	Water. Carbon dioxide (CO_2).
Unsuitable extinguishing media	None in particular.

Special hazards arising from the substance or mixture	Do not inhale explosion and combustion gases. Burning produces heavy smoke.
Advice for firefighters	Use suitable breathing apparatus . Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear personal protection equipment. Remove all sources of ignition. Remove persons to safety. See protective measures under point 7 and 8.
Environmental precautions	Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorbing material, organic, sand
Methods and material for containment and cleaning up	Wash with plenty of water.
Reference to other sections	See also section 8 and 13

7. Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes, inhalation of vapours and mists. Exercise the greatest care when handling or opening the container. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.
Conditions for safe storage, including any incompatibilities	Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
Specific end use(s)	Detergent alcalino per leghe leggere For more information see Technical date bulletin

8. Exposure controls and personal protection

Control parameters

Contained substances	Borax Pentahydrate - CAS: 12179-04-3 ACGIH - LTE mg/m3(8h): 2 - STE mg/m3(15min): 6 - Notes: Inhalable fraction, A4 - Critical effects: Upper respiratory tract irritation. 2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8 OEL - LTE mg/m3(8h): 67.5 - LTE ppm: 10 - STE mg/m3(15min): 101.2 - STE ppm: 15 - Behaviour: Binding

DNEL Exposure Limit Values	Sodium nitrate - CAS: 7631-99-4 Worker Professional: 36.7 mg/m3 - Consumer: 10.9 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Professional: 20.8 mg/kg - Consumer: 12.5 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 12.5 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects 2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8 Worker Professional: 67.5 mg/m3 - Consumer: 34 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects Worker Professional: 101.2 mg/m3 - Consumer: 50.6 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects Worker Professional: 20 mg/kg - Exposure: Human Dermal - Frequency: Long Term, local effects Consumer: 10 - U.M.: mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects Consumer: 34 - U.M.: mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 1.25 - U.M.: mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values	Sodium nitrate - CAS: 7631-99-4 Target: Fresh Water - Value: 0.45 mg/l Target: Marine water - Value: 0.045 mg/l Target: Occasional issue - Value: 4.5 mg/l Target: Sewerage treatment plants - Value: 18 mg/l Sodium nitrite - CAS: 7632-00-0 Target: Fresh Water - Value: 0.0054 mg/l Target: Marine water - Value: 0.00616 mg/l Target: Occasional issue - Value: 0.0054 mg/l Target: Freshwater sediments - Value: 0.0195 mg/kg Target: Marine water sediments - Value: 0.0223 mg/l Target: Sewerage treatment plants - Value: 21 mg/l Target: Soil - Value: 0.000733 mg/kg 2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8 Target: Fresh Water - Value: 1 mg/l Target: Marine water - Value: 0.1 mg/l Target: Occasional issue - Value: 3.9 mg/l Target: Freshwater sediments - Value: 4 mg/kg Target: Soil - Value: 0.4 mg/kg

Exposure controls

Eye protection	Use close fitting safety goggles, don't use eye lens.
Protection for skin	Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands	Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.
Respiratory protection	Not needed for normal use
Thermal Hazards	None
Environmental exposure controls	None
Appropriate engineering controls	None

9. Physical and chemical properties

Properties	Value
Appearance and colour	White wet granular powder
Odour	Not Available
Odour threshold	Not Available
pH	9
Melting point / freezing point	Initial 360 °C
Initial boiling point and boiling range	NA
Flash point	NA
Evaporation rate	NA
Solid/gas flammability	Not Available
Upper/lower flammability or explosive limits	Not Available
Vapour pressure	NA

Vapour density (air=1)	NA
Relative density	Not Available
Solubility in water	Complete in conditions of use
Solubility in oil	NA
Partition coefficient (noctanol/water)	NA
Auto-ignition temperature	It doesn't selfignite °C
Decomposition temperature	It does not decompose °C
Viscosity	NA
Explosive properties	Not explosive
Oxidizing properties	Not oxidant

Other information

Properties	Value
Miscibility	Not Available
Fat Solubility	Not Available
Conductivity	NA
Substance Groups relevant properties	Not Available

10. Stability and reactivity

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None

11. Toxicological information

Information on toxicological effects

Toxicological information of the product	Not applicable
Toxicological information of the main substances found in the mixture	
Borax Pentahydrate - CAS: 12179-04-3	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 3200 - U.M.: mg/kg Test: LD50 - Route: Skin - Species: Rabbit - Op.: > - Value: 2000 - U.M.: mg/kg Test: LC50 - Route: Inhalation - Species: Rat - Op.: = - Value: 2 - U.M.: mg/m3 Type: g) reproductive toxicity: Test: Reproductive Toxicity - Route: Oral - Species: Mouse - Op.: = - Value: 9.6 - U.M.: mg/kg - Source: As B in borax
Sodium nitrate - CAS: 7631-99-4	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 3430 - U.M.: mg/kg Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 5000 - U.M.: mg/kg - Notes: OECD 402 Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5 Type: a) acute toxicity: Test: LD50 - Route: Skin - Species: Rat - Op.: > - Value: 2000 - U.M.: mg/kg Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 300 - U.M.: mg/kg Test: LD50 - Route: Oral - Species: Rat - Op.: -1 - Value: 2000 - U.M.: mg/kg Type: c) serious eye damage/irritation: Test: Eye Irritant - Route: EYES - Species: Rabbit - Op.: Positive

Sodium nitrite - CAS: 7632-00-0	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 180 - U.M.: mg/kg Test: LD50 - Route: Inhalation - Species: Rabbit - Op.: = - Value: 5500 - U.M.: mg/kg - Duration: 4 hours Test: LD50 - Route: Inhalation - Species: Rat - Op.: = - Value: 5500 - U.M.: mg/kg
2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 2410 - U.M.: mg/kg Test: LD50 - Route: Skin - Species: Rabbit - Op.: = - Value: 2764 - U.M.: mg/kg
Alcohol (C9-11) polyglycolether - CAS: 68439-46-3	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: > - Value: 300 - U.M.: mg/kg Test: LC50 - Route: Inhalation - Op.: > - Value: 20 - U.M.: mg/l - Duration: 4 hours Test: LD50 - Route: Skin - Op.: > - Value: 2000 - U.M.: mg/kg
Dodecyldimethylamine-oxide - CAS: 1643-20-5	Type: a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat - Op.: = - Value: 1064 - U.M.: mg/kg Type: b) skin corrosion/irritation: Test: Skin Irritant - Route: Skin
If not differently specified, the information required in Regulation 2015/830/EC listed below must be considered as N.AV	a) acute toxicity; b) skin corrosion/irritation; c) serious eye damage/irritation; d) respiratory or skin sensitisation; e) germ cell mutagenicity; f) carcinogenicity; g) reproductive toxicity; h) STOT-single exposure; i) STOT-repeated exposure; j) aspiration hazard.

12. Ecological information

Toxicity	Based on the information available it is not expected that this product may cause any adverse environmental effect when use instructions and disposal recommendations are followed. Adopt good working practices, so that the product is not released into the environment.
List of substances hazardous to the environment and eco-toxicological information available:	Static test LC50 - Danio rerio (zebra fish) - ca. 100 mg/l - 96 h (OECD Test Guideline 203)
Borax Pentahydrate - CAS: 12179-04-3	a) Aquatic acute toxicity: LC50 Fish = 74 mg/l 96 Limanda IC50 Daphnia = 242 mg/l 24 Daphnia magna
Sodium nitrate - CAS: 7631-99-4	Aquatic acute toxicity: LC50 Fish = 7950 mg/l 96 Oncorhynchus mykiss e Oncorhynchus tshawytscha LC50 Fish = 12000 mg/l 96 Lepomis macrochirus EC50 Daphnia = 8609 mg/l 24 Daphnia magna
Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5	Aquatic acute toxicity: LC50 Fish > 1 mg/l 96 Cyprinus carpio, Carassius auratus LC50 Fish -1 10 mg/l 96 Cyprinus carpio, Carassius auratus EC50 Daphnia > 1 mg/l 48 Daphnia magna EC50 Daphnia -1 10 mg/l 48 Daphnia magna
Sodium nitrite - CAS: 7632-00-0	a) Aquatic acute toxicity: LC50 Fish > 0.54 mg/l 96 Oncorhynchus mykiss LC50 Fish -1 26.3 mg/l 96 Oncorhynchus mykiss EC50 Daphnia = 15.4 mg/l 48 Daphnia magna EC50 Algae > 100 mg/l 72 Scenedesmus subspicatus b) Aquatic chronic toxicity: NOEC Daphnia = 9.86 mg/l 1920 Daphnia NOEC Fish = 6.16 mg/l 744 Ictalurus punctatus
2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8	a) Aquatic acute toxicity: LC50 Fish = 1300 mg/l 96 lepomis macrochirus EC50 Daphnia > 100 mg/l 48 Daphnia magna EC50 Algae > 100 mg/l 96 Selenastrum capricornutum

Alcohol (C9-11) polyglycolether - CAS: 68439-46-3	a) Aquatic acute toxicity: LC50 Fish > 1 mg/l 96 EC50 Daphnia > 1 mg/l 48 Daphnia magna EC50 Algae > 1 mg/l 72 Skeletonema costatum
Dodecyldimethylamine-oxide - CAS: 1643-20-5	a) Aquatic acute toxicity: LC50 Fish = 2.67 mg/l 96 IC50 Daphnia = 3.1 mg/l 48 EC50 Algae = 0.19 mg/l 72
Persistence and degradability	Borax Pentahydrate - CAS: 12179-04-3 Biodegradability: Not persistent and Biodegradable - Test: Not applicable - Duration: Notapplicable - %: Not applicable - Notes: Not applicable Fatty alcohol (C13) ethoxylated - CAS: 6911-36-5 Biodegradability: Not persistent and Biodegradable - Test: OCSE 301 A: COD, depletion of dissolved organic carbon - Duration: Not applicable - %: 2300 - Notes: mg Sodium nitrite - CAS: 7632-00-0 Biodegradability: Non-readily biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable 2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8 Biodegradability: Readily biodegradable - Test: OCSE TG 302B: Test Zahn–Wellens modified, Theoretical carbon demand (ThCO2) - Duration: 28 days - %: 100 - Notes: Not applicable Biodegradability: Readily biodegradable - Test: OCSE 301 E: Modified OCSE Screening, exhaustion of COD - Duration: 28 days - %: 89 - Notes: Not applicable Alcohol (C9-11) polyglycolether - CAS: 68439-46-3 Biodegradability: Readily biodegradable - Test: OCSE 301 E: Modified OCSE Screening, exhaustion of COD - Duration: 28 days - %: 60 - Notes: Not applicable Dodecyldimethylamine-oxide - CAS: 1643-20-5 Biodegradability: Not persistent and Biodegradable - Test: Not applicable - Duration: Not applicable - %: Not applicable - Notes: Not applicable Regulation (EC) No. 648/2004 on Detergents and amendments: Surfactant(s) contained in this preparation comply with biodegradability criteria as defined in (EC) regulations on detergents.
Bioaccumulative potential	Borax Pentahydrate - CAS: 12179-04-3 Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Sodium nitrate - CAS: 7631-99-4 Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Sodium nitrite - CAS: 7632-00-0 Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Alcohol (C9-11) polyglycolether - CAS: 68439-46-3 Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Dodecyldimethylamine-oxide - CAS: 1643-20-5 Bioaccumulation: Not bioaccumulative - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable
Mobility in soil	Borax Pentahydrate - CAS: 12179-04-3 Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Sodium nitrate - CAS: 7631-99-4 Mobility in soil: Not mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable Sodium nitrite - CAS: 7632-00-0 Mobility in soil: Not mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable 2-(2-butoxyethoxy)ethanol - Index number: 603-096-00-8 Mobility in soil: Mobile - Test: Not applicable Not applicable - Duration: Not applicable - Notes: Not applicable
Results of PBT and vPvB assessment	vPvB Substances: None - PBT Substances: None
Other adverse effects	None

13. Disposal considerations

Waste Treatment Methods

Product and its residue	Do not dispose in the canals of wastewater, waterways and soil. The codes indicating the type of waste are considered based on the recommendations and scheduled use of this product. Different codes may be assigned bused on the end user's use and the characteristics of the disposal. Waste code CER/EWC (2000/532/CE), attributable to the product as: 07 06 08* other still bottoms and reaction residues HP4 - HP10 Any remaining product should be disposed of with the material. Containers/contaminated packaging Containers, even completely empty, must not be disposed in the environment. The packigings which can not be cleaned should be disposed of as the material. Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. Transport information

Not classified as dangerous in the meaning of transport regulations

UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packaging group	Not applicable
Environmental hazards	ADR- Enviro mental Pollutant: No IMDG-Marine pollutant: No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	1999/13/EC (VOC directive) Volatile Organic compounds - VOCs = 1.80 % Volatile CMR substances = 0.00 % Halogenated VOCs which are assigned the risk phrase R40 = 0.00 % Organic Carbon - C = 0.00 SVHC Substances: Substances in candidate list (Art. 59 Reg. 1907/2006, REACH): Borax Pentahydrate Toxic to reproduction
Chemical Safety Assessment	Not available

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.