Material Safety Data Sheet

SODIUM BROMIDE LR (RXSOL-60-6605-483)

1. Product and Company Identifaction

Product Name	SODIUM BROMIDE LR
Part Number	RXSOL-60-6605-483

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

Phone	+91 22 20871200 - 1400
Fax	+91 22 27612100 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmraine.com

2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
SODIUM BROMIDE LR	7647-15-6	231-599-9	102,89 g/mol

3. Hazards Identification

Signal Word	Warning
Hazard Statements	H336 May cause drowsiness or dizziness. H361 fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Central nervous system) through
P280 Wear protective gloves.P305 + P351 + P338	NA
Precautionary statements - response	P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P308 + P313 IF exposed or concerned: Get medical advice/ attention
Response	None
Disposal	NA
Prevention	NA
Supplemental Hazard Statements	None
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

General advice	Show this material safety data sheet to the doctor in attendance
If inhaled	After inhalation: fresh air. Call in physician.

Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Inhalation:	NA
Ingestion:	NA
Notes to Physician	NA
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Flammability	NA
Flash Point	NA
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Hydrogen bromide gas Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours.
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	NA
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Protective Equipment	NA.
Specific Hazards Arising from the Chemical	NA

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Spillage	NA
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Enviromental Precaution	Do not let product enter drains
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

Advice on safe handling	Work under hood. Do not inhale substance/mixture.
Advice on protection against fire and explosion	NA
Hygiene measures	Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.

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Conditions for safe storage, including any incompatibilities	Storage conditions Tightly closed. Dry. Hygroscopic.
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Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Handling	NA
Advice on general occupational hygiene	NA

8. Exposure controls and personal protection

Occupational Exposure limit values	No data available
Biological limit values	No data available
Exposure controls	Personal protective equipment
Engineering Control	NA
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	protective clothing
Skin protection	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L
Respiratory protection	required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Other Protection Measure	NA
Control of environmental exposure	Do not let product enter drains.
Thermal hazards	No data available



Gloves



Suit

9. Physical and chemical properties

Physical state	crystalline
Colour	colorless
Odour	odorless

Odor Threshold	Not Applicable
pH	5,74 at 430 g/l at 22,5 °C
Melting Point	Melting point/range: 755 °C - lit.
Boiling Point	1.390 °C at ca.1.013 hPa
Flash Point	No data available
Viscosity	Viscosity, kinematic: 2550 mm2/s - OPPTS 830.7100 Viscosity, dynamic: No data available
Evaporation Rate	Not Applicable
Flammability (solid, gas)	The product is not flammable. - Flammability (solids)
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	> 750 °C
Vapour pressure	1 hPa at 806 °C
Density	3,2 g/cm3 at 25 °C
Vapour Density	1 hPa at 806 °C
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	None
Solubility	946 g/l at 25 °C - soluble
Ignition temperature	No information available.
Particle characteristics	No data available
Oxidizing properties	none
Other safety information	No data available

10. Stability and reactivity

Reactivity	No data available
Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	Risk of explosion with: Alkali metals halogen-halogen compounds Generates dangerous gases or fumes in contact with: Strong acids Release of: hydrogen bromide
Conditions to avoid	Avoid moisture. Heat. no information available
Incompatible materials	No data available
Hazardous Polymerization	In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - male and female - 4.200 mg/kg (OECD Test Guideline 401) Inhalation: No data available LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (US-EPA)
Serious eye damage/eye irritation Eyes - Rabbit	Eyes - Rabbit Result: slight irritation (US-EPA)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)
Serious eye damage/eye irritation	Eyes - Rabbit Result: slight irritation (US-EPA)
Rout Of Entry	NA
Toxicity to Animal	NA
Toxic Effects on Human	NA

Germ cell mutagenicity	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative. Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: unscheduled DNA synthesis assay Test system: mammalian cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 482 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative Remarks: The value is given in analogy to the following substances: ammonium bromide
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure. - Central nervous system
Special Remarks on other Toxi Effects on Humans:	NA
Additional Information	Endocrine disrupting properties
Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 100 mg/kg - LOAEL (Lowest observed adverse effect level) - 225 mg/kg Remarks: The value is given in analogy to the following substances: ammonium bromide RTECS: VZ3150000 Effects due to ingestion may include:, sedation To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Systemic effects:Tiredness After uptake of large quantities: ataxia (impaired locomotor coordination) confusion Convulsions Coma However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.
Endocrine disrupting properties	Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - NOAEL (No observed adverse effect level) - 100 mg/kg - LOAEL (Lowest observed adverse effect level) - 225 mg/kg Remarks: The value is given in analogy to the following substances: ammonium bromide RTECS: VZ3150000 Effects due to ingestion may include:, sedation To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Systemic effects:Tiredness After uptake of large quantities: ataxia (impaired locomotor coordination) confusion Convulsions Coma However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

Persistence and degradability	No data available
Toxicity	Toxicity to fish semi-static test LC50 - Fish - > 440 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test NOEC - Daphnia magna (Water flea) - >= 1.000 mg/l - 48 h (US-EPA) Toxicity to algae ErC50 - Skeletonema costatum (marine diatom) - > 440 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209) Toxicity to fish(Chronic toxicity) semi-static test NOEC - Poecilia reticulata (guppy) - 10 mg/l - 124 d Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Daphnia magna (Water flea) - 7,5 mg/l - 21 d Remarks: (ECHA)
Bioaccumulative potential	Bioaccumulation - 7 d at 25 °C - 53,11 mg/l(sodium bromide) Bioconcentration factor (BCF): 0,23
Toxicity to fish	semi-static test LC50 - Fish - > 440 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test NOEC - Daphnia magna (Water flea) - >= 1.000 mg/l - 48 h (US-EPA)
Toxicity to algae	ErC50 - Skeletonema costatum (marine diatom) - > 440 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)
Eco Toxicity	Not Available
Toxicity to fish(Chronic toxicity)	semi-static test NOEC - Poecilia reticulata (guppy) - 10 mg/l - 124 d Remarks: (ECHA)
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COD and BOD 5	Not Available
Products Biodegradation:	NA
Mobility in soil	No Information available
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties	Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No data available

13. Disposal considerations

Disposal methods	NA
Contaminated packaging	NA
Waste treatment Method	See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

UN number	ADR/RID: - IMDG: - IATA: -
UN proper shipping name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
Transport hazard class(es)	ADR/RID: - IMDG: - IATA: -
Packaging group	ADR/RID: - IMDG: - IATA: -
Environmental hazards	ADR/RID: no IMDG Marine pollutant: no IATA: no
Special precautions for user	No data available
Further information	Not classified as dangerous in the meaning of transport regulations.
Transport in bulk according to IMOinstruments	No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
DSCL (EEC)	NA
Other regulations	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

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.