

1. Product and Company Identification

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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

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Website www.rxmraine.com

2. Composition / Information on ingredients

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

3. Hazards Identification

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Signal Word

Warning

Hazard Statements

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposureH336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure

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

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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

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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

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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.
Environmental 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

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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.
Precautions for safe handling	Advice on safe handling Work under hood. Do not inhale substance/mixture. Hygiene measures Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Storage conditions Tightly closed. Dry. Hygroscopic.
Storage conditions	Tightly closed. Dry. Hygroscopic.
Storage conditions	Hygroscopic.Tightly closed. Dry.
Storage conditions	Hygroscopic.
Storage class	Tightly closed. Dry. Hygroscopic.
Specific end use(s)	Storage class (TRGS 510): 13: Non Combustible Solids 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

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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 government standards such as NIOSH (US) or EN 166(EU). Safety glasses Use equipment for eye protection tested and approved under appropriate

Body Protection
Skin protection

government standards such as NIOSH (US) or EN 166(EU). Safety glasses

protective clothing

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 entrepreneur 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.

NA

Other Protection Measure
Control of environmental exposure
Thermal hazards

Do not let product enter drains.

No data available



Gloves Suit

9. Physical and chemical properties

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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/cm ³ 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

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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

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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 Result: slight irritation	Eyes - Rabbit Result: slight irritation (US-EPA)
(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 (mammalian 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

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

- Central nervous system

NA

Endocrine disrupting properties

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.

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.

Reproductive toxicity

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Special Remarks on other Toxic Effects on Humans:

Additional Information

Assessment

Endocrine disrupting properties

12. Ecological information

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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)
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)
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

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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

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UN number	ADR/RID: -
	IMDG: -

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

15. Regulatory information

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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 NA 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

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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 we assume 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 we 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.

PALLADIUM ACETATE RXSOL-60-6605-160

PALLADIUM HYDROXIDE 20% ON CHARCOAL RXSOL-60-6605-163

PALLADIUM NITRATE 44% PD content RXSOL-60-6605-164

PALLADIUM SPONGE 99.9% POWDER RXSOL-60-6605-165

PALLADIUM CALCIUM CARBONATE 10% pd RXSOL-60-6605-166

PARAFFIN WAX 58 60C BLOCK BRICKS RXSOL-60-6605-180

P DIMETHYL AMINO BENZALDEHYDE AR RXSOL-60-6605-192

P DIMETHYL AMINO CINNAMALDEHYDE AR RXSOL-60-6605-193

PEPTONE BACTERIOLOGICAL GRANULAR RXSOL-60-6605-197

PETROLEUM ETHER 100-2000 C FOR SYNTHESIS RXSOL-60-6605-205

PHENOL RED INDICATOR SOLUTION RXSOL-60-6605-215

PHENOLDISULPHONIC ACID SOLUTION 25% RXSOL-60-6605-216

PHENOLPHTHALEIN INDICATOR RXSOL-60-6605-218

PHENYL CHLOROFORMATE FOR SYNTHESIS RXSOL-60-6605-219

PHENYL HYDRAZINE AR RXSOL-60-6605-220

PHENYL HYDRAZINE FOR SYNTHESIS RXSOL-60-6605-221

PHENYL HYDRAZINE HYDROCHLORIDE AR RXSOL-60-6605-223

PHENYL MERCURY ACETATE FOR SYNTHESIS RXSOL-60-6605-224

PHENYL PHOSPHATE DISODIUM SALT AR RXSOL-60-6605-226

PHENYL TRIMETHYL AMMONIUM CHLORIDE RXSOL-60-6605-227

PHLOXIN B FOR MICROSCOPY RXSOL-60-6605-229

PHTHALAMIDE FOR SYNTHESIS RXSOL-60-6605-237

PHTHALIC ACID AR RXSOL-60-6605-238

PHTHALIC ACID FOR SYNTHESIS RXSOL-60-6605-239

PHTHALIC ANHYDRIDE FOR SYNTHESIS RXSOL-60-6605-249

PHTHALIDE FOR SYNTHESIS RXSOL-60-6605-250

PHTHALIMIDE FOR SYNTHESIS RXSOL-60-6605-251

PICRIC ACID SOLUTION AR 1.2% RXSOL-60-6605-256

PIPERAZINE Anhydrous 98% RXSOL-60-6605-257

PIPERAZINE Anhydrous 98% RXSOL-60-6605-257

PIPES BUFFER piperazine NN-Bis-2-Ethene Sulfonic acid RXSOL-60-6605-260

PLATINIUM OXIDE Pt 80% RXSOL-60-6605-261

POLYETHYLENE GLYCOL 600 RXSOL-60-6605-269

POLYVINYL PYRROLIDONE PVP RXSOL-60-6605-241

PONCEAU S FOR ELECTROPHORESIS RXSOL-60-6605-242

POPOP Scintillation Grade 1 4-bis5-phenyloxaza-2yl benzene RXSOL-60-6605-243

POPSO BUFFER FOR BIOCHEMISTRY RXSOL-60-6605-244

POTASSIUM ACETATE AR RXSOL-60-6605-245

POTASSIUM ACETATE LR RXSOL-60-6605-246

SODAMIDE RXSOL-60-6605-451

SODIUM ACETATE TRIHYDRATE AR RXSOL-60-6605-462

SODIUM ARSENITE SOLUTION AR 0.1N N10 RXSOL-60-6605-468

SODIUM BENZOATE AR RXSOL-60-6605-472

SODIUM BIASELENITE Sodium Hydrogen Selenite RXSOL-60-6605-473

SODIUM BROMATE LR RXSOL-60-6605-481

SODIUM BROMIDE AR RXSOL-60-6605-482

SODIUM BROMIDE LR RXSOL-60-6605-483

SODIUM CHLORIDE SOLUTION 85% wv RXSOL-60-6605-488

SODIUM CHROMATE TETRAHYDRATE LR RXSOL-60-6605-490

SODIUM DI CHLOROISOCYANURATE RXSOL-60-6605-495

SODIUM HYDROXIDE SOLUTION IN 1M N1 RXSOL-60-6605-519

SODIUM LAURYL SULPHATE AR 99% RXSOL-60-6605-529

SODIUM LAURYL SULPHATE POWDER LR RXSOL-60-6605-531

SODIUM META BORATE TETRAHYDRATE LR RXSOL-60-6605-534

SODIUM METHOXIDE AR RXSOL-60-6605-535

SODIUM METHOXIDE POWDER LR RXSOL-60-6605-536

SODIUM MOLYBDATE AR DIHYDRATE RXSOL-60-6605-537

SODIUM NITRITE AR RXSOL-60-6605-541

SODIUM NITRITE LR RXSOL-60-6605-542

SODIUM NITRO PRUSIDE AR RXSOL-60-6605-543

SODIUM NITRO PRUSIDE LR RXSOL-60-6605-544

SODIUM OXALATE AR RXSOL-60-6605-545

SODIUM PERBORATE TRIHYDRATE PURE RXSOL-60-6605-548

SODIUM PER CARBONATE GRANULAR RXSOL-60-6605-549

SODIUM PER CARBONATE TABLET RXSOL-60-6605-550

SODIUM PERSULPHATE AR RXSOL-60-6605-553

SODIUM PERSULPHATE LR RXSOL-60-6605-554

SODIUM PHOSPHATE DI BASIC DIHYDRATE RXSOL-60-6605-559

SODIUM PYRUVATE RXSOL-60-6605-562

SODIUM SALICYLATE AR RXSOL-60-6605-563

SODIUM SELENITE AR ANHYDROUS RXSOL-60-6605-566

SODIUM SELENITE LR ANHYDROUS RXSOL-60-6605-567

SODIUM SELENITE PENTAHYDRATE LR RXSOL-60-6605-568

SODIUM SILICATE POWDER META HYDRATED RXSOL-60-6605-569

SODIUM SILICATE SOLUTION RXSOL-60-6605-570

SODIUM SILICO FLUORIDE 99% RXSOL-60-6605-571

SODIUM STANNATE LR RXSOL-60-6605-572

SODIUM SULPHATE ANHYDROUS AR RXSOL-60-6605-573

SODIUM SULPHIDE FLAKES AR RXSOL-60-6605-576

SODIUM SULPHITE ANHYDROUS AR RXSOL-60-6605-577