

Product Name: B Solve EGME
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Part No / SKU: RXSOL-20-1204-267
Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	B Solve EGME
Part Number	RXSOL-20-1204-215

Company Details:

RXSOL CHEMO PHARMA INTERNATIONAL
PLOT NO C 356, TTC INDUSTRIAL AREA
MIDC NAVI MUMBAI 400709 INDIA

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

Phone	+91 8069976669
Fax	+91 22 27612100 ::::AOH :0091 9821214367
Email	support@rxsolgroup.com
Website	www.rx-sol.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Product name	Cas No	EC No	Weight	Formula
Ethylene glycol monobutyl ether	111-76-2	203-905-0	118,18 g/mol	$C_6H_{14}O_2$

3. HAZARDS IDENTIFICATION

Signal Word	Warning
Hazard Statements	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled.
Precautionary statements	P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Classification of the substance or mixture	No data available
Supplemental Hazard Statements	No data available
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	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance
If inhaled	fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Eye Contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
Swallowed	After swallowing caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Inhalation	No data available
Ingestion	No data available
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	No data available
Suitable extinguishing media	Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire
Further information	Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	No data available
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	No data available
Specific Hazards Arising from the Chemical	No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Do not let product enter drains. Risk of explosion.
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 protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Incompatible materials	No data available
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2
Advice on safe handling	Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols
Conditions for safe storage including any incompatibilities	No data available
Storage conditions	Do not use light-weight-metal containers. Protected from light. Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label.
Storage class	Storage class (TRGS 510) 6.1C Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls	Personal protective equipment
Engineering Control	No data available
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 butyl-rubber Minimum layer thickness 0,7 mm Break through time 480 min Material tested: Butoject® (KCL 898) 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: Viton® Minimum layer thickness 0,7 mm Break through time: 120 min Material tested Vitoject® (KCL 890 / Aldrich Z677698, Size M)
Respiratory protection	Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds 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.
Other Protection Measure	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Colorless
Odour	Ether-like, mild, sweet
Odor Threshold	No data available
pH	7 at 20 °C (as aqueous solution)
Melting Point	-75 °C
Boiling Point	173,5 °C at 1.013 hPa - (ECHA)
Flash Point	67 °C - Pensky-Martens closed cup - DIN 51758
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	Upper explosion limit 12,7 %(V) Lower explosion limit 1,1 %(V)
Autoignition temperature	230 °C at 1.013,25 hPa - DIN 51794
Decomposition temperature	Distillable in an undecomposed state at normal pressure
Vapour pressure	No data available
Viscosity	Kinematic 3,642 mm ² /s at 20 °C 2,284 mm ² /s at 40 °C dynamic 3,6 mPa.s at 20 °C
Density	0,90 g/cm ³ at 20 °C - DIN 51757
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	Log Pow 0,81 at 25 °C - Bioaccumulation is not expected., (ECHA)
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No data available
Particle characteristics	No data available

10. STABILITY AND REACTIVITY

Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Violent reactions possible with: Strong oxidizing agents Generates dangerous gases or fumes in contact with: Aluminum
Conditions to avoid	Strong heating.
Incompatible materials	No data available
Hazardous decomposition products	In the event of fire see section 5

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Guinea pig - male and female - 1.414 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 1.200 mg/kg (Acute toxicity estimate according to Regulation (EC) No. 1272/2008) Remarks: (Regulation (EC) No 1272/2008, Annex VI) Acute toxicity estimate Inhalation - 4 h - 3 mg/l - vapor (Acute toxicity estimate according to Regulation (EC) No. 1272/2008) (Regulation (EC) No 1272/2008, Annex VI) LD50 Dermal - Guinea pig - male and female - > 2.000 mg/kg (OECD Test Guideline 402) (ECHA)
Skin corrosion/irritation	Skin - Rabbit Irritating to skin. - 4 h (Regulation (EC) No. 440/2008, Annex, B.4) (ECHA) (Regulation (EC) No 1272/2008, Annex VI)
Serious eye damage/irritation	Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI)
Respiratory or skin sensitization	Maximization Test - Guinea pig (OECD Test Guideline 406)
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: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Intraperitoneal Method: OECD Test Guideline 474
Reproductive toxicity	Overexposure may cause reproductive disorder(s) based on tests with laboratory animals
Specific target organ toxicity - single exposure	No data available
Additional Information	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) Millipore- 8.01554 Page 10 of 14 The life science business of Merck operates as MilliporeSigma in the US and Canada 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male - Oral - 90 Days - NOAEL (No observed adverse effect level) - 69 mg/kg Repeated dose toxicity - Rabbit - male and female - Dermal - 90 d - NOAEL (No observed adverse effect level) - > 150 mg/kg Human exposure above 200 ppm can be expected to cause narcosis, damage to the kidney and liver and present an abnormal blood picture showing erythropenia, reticulocytosis, granulocytosis, leukocytosis, and would be likely to cause fragility of erythrocytes and hematuria. Swallowing of 2-butoxyethanol results in a sour taste that turns to a burning sensation and is followed by numbness of the tongue which indicates paralysis of the sensory nerve endings., Central nervous system depression, Headache, narcosis To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigate

12. ECOLOGICAL INFORMATION

Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 90,4 % - Readily biodegradable. (OECD Test Guideline 301B) Ratio BOD/ThBOD 88 %
Toxicity to fish	Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1.474 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Static test EC50 - Daphnia magna (Water flea) - 1.550 mg/l - 48 h (OECD Test Guideline 202)
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 1.840 mg/l - 72 h (OECD Test Guideline 201)
Products Biodegradation	No data available
Mobility in soil	No data 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	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	Additional ecological information Avoid release to the environment. Stability in water at 19 °C 83 - 91 % - 72 h Hydrolyzes on contact with water. Hydrolyzes readily. - 2,2 yr reaction with hydroxyl radicals(IUCLID)

13. DISPOSAL CONSIDERATIONS

Product	No data available
Contaminated packaging	No data available
Waste treatment Method	No data available

14. TRANSPORT INFORMATION

UN number	ADR/RID:Not Applicable	IMDG:Not Applicable	IATA:Not Applicable
UN proper shipping name	ADR/RID:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol) IMDG:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol) IATA:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol)		
Transport hazard class(es)	ADR/RID:6.1	IMDG:6.1	IATA: 6.1
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:No	IMDG Marine pollutant: No	IATA: No
Special precautions for user	Tunnel restriction code (E)		
Further information	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.
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	A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION AND DISCLAIMER

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 Rxsol Chemo Pharma 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.
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