1. Product and Company Identifaction

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Porduct 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

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

ether

3. Hazards Identification

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Signal Word Warning

Hazard Statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled.

serious eye irritation. Fi351 Toxic ir ilinaieti

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

Swallowed

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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.

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 No data available

needed

5. Fire-fighting Measures

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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 No data available

products

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

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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 Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning 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 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 and personal protection

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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 recommend

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)

Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds 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 No data available

9. Physical and chemical properties

Respiratory protection

Decomposition temperature

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Physical state Liquid
Colour Colorless

Odour Ether-like, mild, sweet
Odor Threshold No data available

pH 7 at 20 $^{\circ}$ C (as aqueous solution)

Melting Point -7

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

Distillable in an undecomposed state at normal pressure

Vapour pressure No data available

Viscosity Kinematic 3,642 mm2/s at 20 °C2,284 mm2/s at 40 °C dynamic 3,6

mPa.s at 20 °C

Density 0,90 g/cm3 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

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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

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Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

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 - Rabbit Irritating to skin. - 4 h (Regulation (EC) No. 440/2008, Annex, B.4) (ECHA) (Regulation (EC) No 1272/2008, Annex VI)

Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405) Remarks: (Regulation (EC) No 1272/2008, Annex VI

Maximization Test - Guinea pig (OECD Test Guideline 406)

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

Overexposure may cause reproductive disorder(s) based on tests with

laboratory animals

No data available

12. Ecological information

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Biodegradability aerobic - Exposure time 28 d Result: 90,4 % - Readily Persistence and degradability

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)

Static test EC50 - Daphnia magna (Water flea) - 1.550 mg/l - 48 h Toxicity to daphnia and other aquatic invertebrates

(OECD Test Guideline 202)

Toxicity No data available Toxicity to bacteria No data available

Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 1.840 Toxicity to algae

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 °C83 - 91 % - 72 h Hydrolyzes on contact with water.Hydrolyzes readily. - 2,2 yr reaction with hydroxyl

radicals(IUCLID)

13. Disposal considerations

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

14. Transport information

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UN number ADR/RID:Not Applicable IMDG:Not Applicable IATA:Not Applicable

ADR/RID:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol) UN proper shipping name

IMDG:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol)

IATA:TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol)

ADR/RID:6.1 IMDG:6.1 IATA: 6.1 Transport hazard class(es)

ADR/RID: III IMDG: III IATA: III Packaging group

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

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Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of

substance or mixture

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

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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 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 Rxsol Chemo Pharma International has been advised of the possibility of such damages.

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