Material Safety Data Sheet

DRAGENDROFF S REAGENT (RXSOL-60-6604-519)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-519
Product Type	DRAGENDROFF'S REAGENT
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

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2. Composition / informationon ingredients

Substance / Preparation : DRAGENDROFF'S REAGENT

Substance name	Contents	CAS No
Acetic acid	>= 50 - 90 %	64-19-7
Ethyl acetate	>= 50 - = 100 %	141-78-6

Substance. Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2),
H225 Skin corrosion (Category 1B), H314
Specific target organ toxicity - single exposure (Category 3),
Central nervous system, H336
3.2 Label elements
Labelling according Regulation
(EC) No 1272/2008 Symbol(s) : Xi : Irritation. Highly flammable C: Corrosive
RPhrase(s) :R37/38: Irritating to respiratory system and skin. S Phrase(s) :S2 : Keep out of reach of children.
S28: After contact with skin, wash immediately with plenty of …(to be specified by manufacturer).
Labelling according Regulation (EC) No 1272/2008
Hazard pictograms

Signal word : Danger
Hazard statement(s) H225 Highly flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H336 May cause drowsiness or dizziness. Precautionary statement(s)
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours. P280 Wear protective gloves/ protective clothing/ eye protection/ 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. P310 Immediately call a POISON CENTER/doctor. Supplemental Hazard Statements none
3.3 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. Lachrymator.

4. First Aid Measures

4.1 Description of first aid measures
• General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
• If inhaled If breathed in, move person into fresh air. If not breathing,
give artificial respiration. Consult a physician.

• In case of skin contact Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water. Consult a physician.
• In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
• If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2)
and/or in section 11
4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. Fire-fighting Measures

5.1 Extinguishing media
Suitable extinguishing media Use water spray, alcohol-resistant foam,
dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance
or mixture Carbon oxides, Potassium oxides, Bismuth oxides
5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information Use
water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations.
Vapours can accumulate in low areas. For personal protection see section
8. 6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and materials
for containment and cleaning up Contain spillage, and then collect with an
electrically protected vacuum cleaner or by wet-brushing and place in container for
disposal according to local regulations (see section 13).
6.4 Reference to other sections
For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling
Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking
.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to
prevent leakage. Storage class (TRGS 510): Flammable liquids
7.3 Specific end use(s)
Apart from the uses mentioned in section
1.2 no other specific uses are stipulated

8. Exposure controls and personal protection

8.1 Control parameters
8.2 Exposure controls
Appropriate engineering controls Handle in accordance with
good industrial hygiene and safety practice. Wash hands before
breaks and at the end of workday. Personal protective equipment
• Eye/face protection Tightly fitting safety goggles.
Faceshield (8-inch minimum). Use equipment for eye protection tested
and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
• Skin protection Handle with gloves. Gloves must be inspected prior to use.
Use proper glove removal technique (without touching glove's outer surface) to avoid
skin contact with this product. Dispose of contaminated gloves after use in accordance
with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers.
It should not be construed as offering an approval for any specific use scenario.
• Body Protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
• Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). • Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Odour Threshold: No data available
pH : No data available
Melting point/freezing point :No data available
Initial boiling point and boiling range :77 °C
at 1013 hPa Flash point: 7 °C
Evaporation rate :No data available
Flammability (solid, gas) :No data available
Upper/lower: No data available
flammability or explosive limits
Vapour pressure : No data available
Vapour density :No data available
Relative density: 0.950 g/cm3 at 20 °C
Water solubility: No data available
Partition coefficient: noctanol/ water : No data available
Auto-ignition temperature :No data available
Decomposition temperature :No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available
9.2 Other safety information
No data available

10. Stability and reactivity

10.1 Reactivity No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat, flames and sparks.
10.5 Incompatible materials
Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Strong oxidizing agents
10.6 Hazardous decomposition products
Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Potassium oxides, Bismuth oxides In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects
• Acute toxicity No data available
• Skin corrosion/irritation No data available
• Serious eye damage/eye irritation No data available
• Respiratory or skin sensitisation Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
• Germ cell mutagenicity No data available
• Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
• Reproductive toxicity No data available

• Specific target organ toxicity - single exposure No data available
• Specific target organ toxicity - repeated exposure No data available
• Aspiration hazard No data available
• Additional Information RTECS: Not available Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache

12. Ecological information

12.1 Toxicity
No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 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.
12.6 Other adverse effects

13. Disposal considerations

13.1 Waste treatment methods
• Product Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
• Contaminated packaging Dispose of as unused product.

14. Transport information

14.1 UN number
ADR/RID: 2924 IMDG: 2924 IATA: 2924
14.2 UN proper shipping name
ADR/RID: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Acetic acid, Ethyl acetate)
IMDG: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Acetic acid, Ethyl acetate)
IATA: Flammable liquid, corrosive, n.o.s. (Acetic acid, Ethyl acetate)
14.3 Transport hazard
class(es) ADR/RID: 3 (8) IMDG: 3 (8) IATA: 3 (8)
14.4 Packaging group ADR/RID: II IMDG: II IATA: II
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
No data available

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008 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.