Material Safety Data Sheet

BIAL'S REAGENT ORCINOL REAGENT (RXSOL-60-6604-062)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-062
Product Type	BIAL'S REAGENT (ORCINOL 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

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

2.1. Substances: BIAL'S REAGENT (ORCINOL REAGENT)

Substance name	Contents	CAS No
Ethanol	75 – 99%	64-17-5
Resorcinol	1-5%	7732-18-5
Water	1-5%	7732-18-5
Ferric Chloride (Hexaydrate)	0.01-1%	10025-77-1
Hydrochloric acid	0.01%	7647-01-0

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 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)
Flammable liquids, H226
Category 3
Acute toxicity (oral), H302
Category 4
Acute toxicity H331
(inhalation:gas) Category 3
Skin corrosion/irritation, H314
Category 1B
Full text of H statements : see section 16
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Symbol(s) : C: Corrosive

R Phrase(s) : 35. Cause severe burns.
37. Irritating to respiratory system.
S Phrase(s) : 24. Avoid contact with skin.
26. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
28. After contact with skin, wash immediately with plenty of …(to be specified by manufacturer).
35. This material and its container must be disposed off in a safe way.
45. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
59. Refer to manufacturer/supplier for information on recovering/recycling.
36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.



Signal word : Danger
Hazard statements : H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H314- Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.
Precautionary statements : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
3.3. Other hazards
No additional information available

4. First Aid Measures

4.1. Description of first aid measures First-aid measures
after inhalation : Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after inhalation : Toxic if inhaled.
Symptoms/effects after ingestion : Harmful if swallowed.
4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. No open flames. No smoking. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

7. Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid contact during pregnancy/while nursing. Do not breathe vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

8. Exposure controls and personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -114.1 °C
Freezing point : No data available
Boiling point : 78.37 °C
Flash point : 16.6 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 789 kg/m³
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available
9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
Thermal decomposition generates : Corrosive vapours.
10.2. Chemical stability
May form flammable/explosive vapour-air mixture.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Open flame. Heat. Sparks. Overheating.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available.

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed. Inhalation:gas: Toxic if inhaled.
ATE CLP (oral) 500 mg/kg bodyweight
ATE CLP (gases) 700 ppmv/4h
Skin corrosion/irritation : Causes severe skin burns and eye damage
. Serious eye damage/irritation : Serious eye damage, category 1, implicit
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

12. Ecological information

12.1. Toxicity
No additional information available
12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

13. Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 2920
UN-No. (IMDG) : 2920
UN-No. (IATA) : 2920
UN-No. (ADN) : 2920
UN-No. (RID) : 2920

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (IMDG) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (IATA) : Corrosive liquid, flammable, n.o.s.
Proper Shipping Name (ADN) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Proper Shipping Name (RID) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Transport document description (ADR) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S.,8 (3), II, (D/E)
Transport document description (IMDG) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S.,8 (3), II
Transport document description (IATA) : UN 2920 Corrosive liquid, flammable, n.o.s., 8 (3), II
Transport document description (ADN) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), II
Transport document description (RID) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), II

14.3. Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 8 (3)
Danger labels (ADR) : 8, 3
IMDG- Transport hazard class(es) (IMDG) : 8 (3)
Danger labels (IMDG) : 8, 3
IATA- Transport hazard class(es) (IATA) : 8 (3)
Hazard labels (IATA) : 8, 3
ADN- Transport hazard class(es) (ADN) : 8 (3)
Danger labels (ADN) : 8, 3
RID- Transport hazard class(es) (RID) : 8 (3)
Danger labels (RID) : 8, 3

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport- Classification code (ADR) : CF1

Special provisions (ADR) : 274

Limited quantities (ADR) : 1l

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02

Mixed packing provisions (ADR) : MP15

Portable tank and bulk container instructions (ADR): T11

Portable tank and bulk container special provisions (ADR): TP2, TP27

Tank code (ADR) : L4BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation(ADR): S2

Hazard identification number (Kemler No.) : 83

Orange plates :

Tunnel restriction code (ADR) : D/E

EAC code : •3W

APP code : A(fl)

Transport by sea- Special provisions (IMDG) : 274

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-C

Stowage category (IMDG) : C

Stowage and handling (IMDG) : SW1, SW2

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

MFAG-No : 132

Air transport- PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y840

PCA limited quantity max net quantity (IATA): 0.5L

PCA packing instructions (IATA) : 851

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 855

CAO max net quantity (IATA) : 30L

ERG code (IATA) : 8F

Inland waterway transport- Classification code (ADN) : CF1

Special provisions (ADN) : 274

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Rail transport- Classification code (RID) : CF1

Special provisions (RID) : 274

Limited quantities (RID) : 1L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15

Portable tank and bulk container
instructions (RID): T11
Portable tank and bulk container special provisions (RID) : TP2, TP27
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6
Hazard identification number (RID) : 83

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Ethanol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Ethanol is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: Ethanol is listed

Denmark

Class for fire hazard : Class I-1
Store unit : 1 liter
Classification remarks : F ; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

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.

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