

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description:

Cat No:

CAS No:

Methanesulfonyl-methanesulfonyl chloride

RH-05K-010

22317-89-1

Relevant identified uses of the substance or mixture and uses advised against**Recommended Use:**

Laboratory Chemicals

Uses advised against:

No information available

Details of the supplier of the safety data sheet**Company**

Advanced Chemical Intermediates Limited

The Old Dairy

Tresplatt

Davidstow

Cornwall

PL32 9YD

Tel: +44 (0) 1840 261451

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation toxicity – dusts and mists	Category 4
Skin corrosion/irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

Classification according to EU Directives 67/548/EEC Or 1999/45/EC

For the full text of the R phrases mentioned in this section, see section 16

Symbol(s)

C - Corrosive

R – phrase(s)

R14 – Reacts violently with water

R28 – Contact with water liberates toxic gas

R34 - Causes burns

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

Label Elements**Signal Word****Danger****Hazard Statements**

H302: Harmful if swallowed

H332: Harmful if inhaled

H314 – Causes severe skin burns and eye damage

H318: Causes serious eye damage

EUH029 – Contact with water liberates toxic gas

EUH014 – Reacts violently with water

Precautionary Statements – EU (S28, 1272/2008)

P301 + P330 + P331 – IF SWALLOWED :rinse mouth. Do NOT induce vomiting

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P280 – Wear 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 so. Continue rinsing

P310 – Immediately call a POISON CENTRE or doctor/physician

P402 + P404 – Store in a dry place. Store in a closed container

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Other Hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component

Methanesulfonyl-methanesulfonyl chloride

CAS No:

22317-89-1

EC No:

4. FIRST AID MEASURES

Description of first aid measures**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes, Obtain medical attention

Skin Contact

wash off immediately with soap and plenty of water removing all contaminated clothes and shoes, Obtain medical attention

Ingestion

Do not induce vomiting Call a physician immediately

Inhalation

Remove from exposure, lie down. Move to fresh air if breathing is difficult, give oxygen if not breathing, give artificial respiration, Obtain medical attention

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray Carbon dioxide (CO2) Dry chemical foam

Extinguishing media which ust not be used for safety reasons

No information available

Special hazards arising from the substance or mixture

Contact with water liberates toxic gas. Water reactive. Produce flammable gases on contact with water

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (eg. Sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal Wear self-contained breathing apparatus and protective suit. Do not expose spill to water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breath dust, do not breath vapours or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation. Do not allow contact with water because of violent reaction. Keep under nitrogen.

Conditions for Safe Storage, including and incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Never allow product to get in contact with water during storage. Keep under nitrogen.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure limits

This product, as supplied does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to workstation location.

Personal Protective Equipment

1. Eye protection
2. Hand protection
3. Skin and body protection
4. Respiratory protection

Goggles

Protective gloves

Wear appropriate protective gloves and clothing to prevent skin exposure

Follow the OSHA respirator regulations found in 29 CFR 1910.134 OR European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene practice

Environmental Exposure Controls

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	SOLID
Appearance	BEIGE SOLID
Boiling Point/Range	-
Melting Point/Range	98-101 C
Flash Point	-
Molecular Formula	C2H5ClO4S2
Molecular Weight	192.64

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions

Possibility of Hazardous Reactions

Hazardous Polymerization

No information available

Hazardous Reactions

No information available

Conditions to Avoid

Incompatible products. Heat.

Incompatible Materials

Acids, bases, strong oxidizing agents, strong reducing agents, water

Hazardous Decomposition Products

In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

No acute toxicity information available for product

Product Information

Component Information

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in product
Sensitization	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Target Organs	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated
Endocrine Disruptor Information	None known

12. ECOLOGICAL INFORMATION

Toxicity

Eco-toxicity Effects	Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants
Persistence and Degradability	No information available
Bio-accumulative Potential	No information available
Mobility in Soil	No information available
Other adverse effects	No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods		
Waste from Residues/Unused	Products	Dispose of in accordance with local regulations
Contaminated Packaging		Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No		3261
Hazard class	8	
Packing group	ii	
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	

ADR

UN-No		3261
Hazard class	8	
Packing group	ii	
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	

IATA

UN-No		3261
Hazard Class	8	
Packing Group	ii	
Proper Shipping Name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.	

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the substance or the mixture

Chemical Safety Assessment

A Chemical safety assessment has not been carried out.

International Inventories

Legend

TSCA – United States Toxic Substances Control Act section 8(b) Inventory
 EINECS/ELINCS – European inventory lists
 DSL/NDL – Canadian domestic substances list/non domestic substances list
 PICCS – Philippines Inventory of chemicals and chemical substances
 ENCS – Japan existing and new chemical substances
 CHINA – China inventory of existing chemical substances
 AICS – Inventory of chemical substances
 KECL – Existing and evaluated chemical substances

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2 – 3

R14 – Reacts violently with water
 R29 – Contact with water liberates toxic gas
 R34 – Causes burns
 R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

Revision Date 27-June 2011
 Revision Summary Not Applicable
 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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