


1. Identification of Substance / Mixture**Product Identifier**

Product Name	4-BENZYLOXOLAN-2-ONE
Other Names	
Product Code	501592
CAS	22530-98-9
MDL	MFCD01529601
EINECS	
REACH Registration Number	
Relevant Uses	Research and Development
Uses Advised Against	No uses advised against.

Supplier Details

Company	Fluorochem Limited
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Telephone	+44(0)1457 860111
Email	sds@fluorochem.co.uk
Emergency Telephone	+44(0)1457 860111 (08:00 - 17:30)

2. Hazards Identification

Classification	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
Signal Word	Warning
Pictograms	 GHS07
Hazards	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautions	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear face protection. P301+P312 IF SWALLOWED: Call a doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. 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. P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment. P330 Rinse mouth. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Other Classification Hazards	

3. Composition of Ingredients

SUBSTANCE				
Name	CAS	Einecs	Composition	Hazards
4-BENZYLOXOLAN-2-ONE	22530-98-9		<= 100%	H302 Acute Tox. 4 H315 Skin Irrit. 2 H319 Eye Irrit. 2A H335 STOT SE 3

4. First Aid Measures

Eye contact	Avoid contact with eyes.
Ingestion	Avoid ingesting the product.
Inhalation	Avoid inhaling the product.
Skin Contact	Avoid contact with skin.
General Advice	
Most Important Symptoms and Effects	No known symptoms or effects.
Immediate First Aid Measures	No additional first aid measures required.

5. Fire Fighting Measures

Suitable Fire Extinguishing Media	Carbon Dioxide, Dry Powder, Foam
Unsuitable Fire Extinguishing Media	No known unsuitable media.
Special Hazards	No known special hazards.
Advice for Fire Fighters	No specific fire fighter advice.

6. Accidental Release Measures

Personal Precautions	Refer to section 8 for personal protection details.
Environmental Precautions	Avoid discharging the product into drains or rivers.
Containment - Methods and Materials	Spill Response should only be carried out by trained or qualified personnel.
Referenced SDS Sections	Precautionary Phrases are located throughout sections of this SDS. Where available, supplementary information has also been included.

7. Handling and Storage

Personal Precautions

Safe Handling	Ensure product is handled by a professional or qualified personnel in a fume cupboard.
Protection Against Explosion and Fire	Where possible, use anti static and spark proof equipment when handling.
General Occupational Hygiene	

Conditions for Safe Storage and Incompatibilities

Managing Storage Risks	Keep the container tightly closed. Store in appropriate chemical area.
Storage Controls	Keep the container tightly closed.
Maintaining Integrity	Keep the container tightly closed
Other Advice	No other specific advice available.
Specific End Use(s)	No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
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Engineering Measures	Ensure that all engineering measures in section 7 of this SDS are in place.
Face Protection	Wear safety goggles with side shields or face shield.
Hand Protection	Wear suitable gloves that satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.
Skin Protection	Ensure arms and legs are not exposed. Wear safety shoes that meet at least S1 standards. Wear a lab coat.
Respiratory Protection	Handle the product within a fume cupboard with adequate extraction or wear face mask with suitable filtration.
Hygiene Protection	Ensure hair or skin particles cannot enter the chemical container.
Environment Exposure Controls	No further personal protection advice is available.

9. Physical and Chemical Properties

State	Solid
Appearance	Solid

Odour	No data available.
Odour Threshold	No data available.
pH	No data available.
Melting Point / Freezing Point	45 to 46Å°C
Initial Boiling Point	No data available.
Boiling Range	No data available.
Flash Point	No data available.
Evaporation Rate	No data available.
Flammability	No data available.
Upper / Lower Flammability or Explosion Limits	No data available.
Vapour Pressure	No data available.
Vapour Density	No data available.
Relative Density	No data available.
Solubility	No data available.
Partion Coefficient	No data available.
Auto Ignition Temperature	No data available.
Decomposition Temperature	No data available.
Viscosity	No data available.
Explosive Properties	No data available.
Oxidising Properties	No data available.
Other information	No additional information available

10. Stability and Reactivity

Reactivity	No Data Available.
Stability	No Data Available.
Possibility of Hazardous Reactions	No Data Available.
Conditions To Avoid	No Data Available.
Incompatible Materials	No Data Available.
Hazardous Decomposition Products	No Data Available.

11. Toxicology Information

Acute Toxicity	
Skin Corrosion / Irritation	
Serious Eye Damage / Irritation	
Respiratory or Skin Sensitisation	
Germ Cell Mutagenicity	
Carcinogenicity	
Reproductive Toxicity	
STOT-single Exposure	
STOT-repeated Exposure	
Aspiration Hazard	
Additional Toxicology Information	No Toxicology data available for this product.

12. Ecological Information

Toxicity	No Ecological data available for this product.
Persistence and Degradability	No Ecological data available for this product.
Bio-Accumulative Potential	No Ecological data available for this product.
Mobility in Soil	No Ecological data available for this product.
Results of PBT and vPvB assessment	No Ecological data available for this product.
Endocrine Disrupting Properties	No Ecological data available for this product.
Other Adverse Effects	No Ecological data available for this product.

13. Disposal Considerations

Disposal Operations	Ensure product is disposed of by licensed waste carriers.
Disposal of Packaging	Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be recyclable if not contaminated.

14. Transport Information

This product is classified as non-hazardous for transport.

15. Regulatory Information

Regulatory Information	As far as Fluorochem is aware, there are no further regulations controlling this product.
Chemical Safety Assessment	No Chemical Safety Assessment available for this product.

16. Other Information

Information Not Covered in Other Sections	ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road) RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization ICAO-TI: Technical Instructions by the ICAO GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service
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Date Modified 28/10/2022

Disclaimer The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006.