

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

<b>Product Name</b>	<b>N-Phenacylthiazolium bromide</b>
<b>Other Names</b>	
<b>Product Code</b>	080244
<b>CAS</b>	5304-34-7
<b>MDL</b>	MFCD00949072
<b>EINECS</b>	N/A
<b>REACH Registration Number</b>	
<b>Relevant Uses</b>	Research and Development
<b>Uses Advised Against</b>	No uses advised against.

**Supplier Details**

<b>Company</b>	Fluorochem Limited
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<b>Emergency Telephone</b>	+44(0)1457 860111 (08:00 - 17:30)

**2. Hazards Identification**

<b>Classification</b>	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A STOT SE 3
<b>Signal Word</b>	<b>Warning</b>
<b>Pictograms</b>	 <b>GHS07</b>
<b>Hazards</b>	<b>H302</b> Harmful if swallowed. <b>H312</b> Harmful in contact with skin. <b>H315</b> Causes skin irritation. <b>H319</b> Causes serious eye irritation. <b>H332</b> Harmful if inhaled. <b>H335</b> May cause respiratory irritation.
<b>Precautions</b>	<b>P261</b> Avoid breathing dust/fume/gas/mist/vapours/spray. <b>P264</b> Wash hands thoroughly after handling. <b>P270</b> Do not eat, drink or smoke when using this product. <b>P271</b> Use only outdoors or in a well-ventilated area. <b>P280</b> Wear face protection. <b>P301+P312</b> IF SWALLOWED: Call a doctor if you feel unwell. <b>P302+P352</b> IF ON SKIN: Wash with plenty of water. <b>P304+P340</b> IF INHALED: Remove person to fresh air and keep comfortable for breathing. <b>P305+P351+P338</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>P312</b> Call a POISON CENTER/doctor if you feel unwell. <b>P321</b> Specific treatment. <b>P330</b> Rinse mouth. <b>P337+P313</b> If eye irritation persists: Get medical advice/attention. <b>P340</b> Remove person to fresh air and keep comfortable for breathing. <b>P362+P364</b> Take off contaminated clothing and wash it before reuse. <b>P403+P233</b> Store in a well-ventilated place. Keep container tightly closed. <b>P405</b> Store locked up.
<b>Other Classification Hazards</b>	

**3. Composition of Ingredients**

SUBSTANCE				
Name	CAS	Einecs	Composition	Hazards
N-Phenacylthiazolium bromide	5304-34-7	N/A	<= 100%	H302 Acute Tox. 4 H312 Acute Tox. 4 H315 Skin Irrit. 2 H319 Eye Irrit. 2A H332 Acute Tox. 4

## 4. First Aid Measures

<b>Eye contact</b>	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical attention.
<b>Ingestion</b>	If swallowed rinse the mouth with plenty of water (only if the person is conscious) and contact a poison centre or physician if you feel unwell.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Call a poison centre or physician if you feel unwell. If breathing is irregular or stopped, administer artificial respiration.
<b>Skin Contact</b>	After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately. Contact a poison centre or physician if you feel unwell.
<b>General Advice</b>	No additional advice.
<b>Most Important Symptoms and Effects</b>	No known symptoms or effects.
<b>Immediate First Aid Measures</b>	No additional first aid measures required.

## 5. Fire Fighting Measures

<b>Suitable Fire Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Fire Extinguishing Media</b>	No known unsuitable media.
<b>Special Hazards</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Advice for Fire Fighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. Accidental Release Measures

<b>Personal Precautions</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Keep personnel away from spill/leak.
<b>Environmental Precautions</b>	Do not let product enter drains or waterways. Avoid discharge into the environment.
<b>Containment - Methods and Materials</b>	Spill Response should only be carried out by trained or qualified personnel.
<b>Referenced SDS Sections</b>	For personal protection see section 8. For disposal see section 13.

## 7. Handling and Storage

### Personal Precautions

<b>Safe Handling</b>	Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For precautions see section 2.2.
<b>Protection Against Explosion and Fire</b>	Where possible, use anti static and spark proof equipment when handling.
<b>General Occupational Hygiene</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

### Conditions for Safe Storage and Incompatibilities

<b>Managing Storage Risks</b>	Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.
<b>Storage Controls</b>	No special requirements
<b>Maintaining Integrity</b>	Keep container tightly closed in a cool area away from sunlight or heat sources.
<b>Other Advice</b>	No other specific advice available.
<b>Specific End Use(s)</b>	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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<b>Engineering Measures</b>	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Face Protection</b>	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.
<b>Hand Protection</b>	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. 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.
<b>Skin Protection</b>	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1

**Respiratory Protection**

standards. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene Protection**

Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.

**Environment Exposure Controls**

Avoid discharge into the environment, see section 6.2.

**9. Physical and Chemical Properties**

<b>State</b>	Solid
<b>Appearance</b>	Solid
<b>Odour</b>	No data available.
<b>Odour Threshold</b>	No data available.
<b>pH</b>	No data available.
<b>Melting Point / Freezing Point</b>	227 to 229Å°C
<b>Initial Boiling Point</b>	No data available.
<b>Boiling Range</b>	No data available.
<b>Flash Point</b>	No data available.
<b>Evaporation Rate</b>	No data available.
<b>Flammability</b>	No data available.
<b>Upper / Lower Flammability or Explosion Limits</b>	No data available.
<b>Vapour Pressure</b>	No data available.
<b>Vapour Density</b>	No data available.
<b>Relative Density</b>	No data available.
<b>Solubility</b>	No data available.
<b>Partion Coefficient</b>	No data available.
<b>Auto Ignition Temperature</b>	No data available.
<b>Decomposition Temperature</b>	No data available.
<b>Viscosity</b>	No data available.
<b>Explosive Properties</b>	No data available.
<b>Oxidising Properties</b>	No data available.
<b>Other information</b>	No additional information available

**10. Stability and Reactivity**

<b>Reactivity</b>	No known reactivity, based on information available.
<b>Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal storage conditions.
<b>Conditions To Avoid</b>	Excess heat. Exposure to moisture.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	No Data Available.

**11. Toxicology Information**

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

**12. Ecological Information**

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

### 13. Disposal Considerations

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

### 14. Transport Information

<b>IATA UN Number</b>	2811	<b>ADR UN Number</b>	2811	<b>IMDG UN Number</b>	2811
<b>IATA Proper Shipping Name</b>	TOXIC SOLID, ORGANIC, N.O.S.(N-Phenacylthiazolium bromide)	<b>ADR Proper Shipping Name</b>	TOXIC SOLID, ORGANIC, N.O.S.(N-Phenacylthiazolium bromide)	<b>IMDG Proper Shipping Name</b>	TOXIC SOLID, ORGANIC, N.O.S.(N-Phenacylthiazolium bromide)
<b>IATA Packing Group</b>	III	<b>ADR Packing Group</b>	III	<b>IMDG Packing Group</b>	III
<b>IATA Hazard Class</b>	6.1	<b>ADR Hazard Class</b>	6.1	<b>IMDG Hazard Class</b>	6.1
<b>IATA Sub Class</b>		<b>ADR Sub Class</b>		<b>IMDG Sub Class</b>	-
				<b>IMDG Special Provisions</b>	
				<b>IMDG IBC Instructions</b>	
				<b>IMDG IBC Instructions</b>	IBC08
				<b>IMDG Tank Instructions</b>	T1
				<b>IMDG Tank Provisions</b>	TP33

### 15. Regulatory Information

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

### 16. Other Information

<b>Information Not Covered in Other Sections</b>	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
<b>Revision</b>	5.112
<b>Date Modified</b>	03/11/2022
<b>Disclaimer</b>	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.