

**SAFETY DATA SHEET**  
**ISP PEPPER STREAM**  
ISPCSOL 1.00 SA EN 13.10.2004 MSDS\_SA

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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Product Code	ISPCSOL
Trade Name	ISP CAPSICUM SOLUTION
Manufacturer/Supplier	ISP Chemicals
Address	P O Box 472 Olifantsfontein 1665
Phone Number	011 316 4063
Fax Number	011 316 3199
Emergency Phone Number	N.P.Sanan : (011) 316 4063 (Cell) 082 904 0921

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**2. COMPOSITION/INFORMATION ON THE COMPONENTS**

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Description	Protective Solution		
<b>Hazardous Components in Product for EC</b>			
<b>Component Name</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Capsaicinoids	< 0.60%	R38, R43	Xi

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**3. HAZARD IDENTIFICATION**

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<b>Main Hazards</b>	Protect from sunlight and do not expose to temperatures exceeding 50 °C. Irritating to skin. May cause sensitisation by skin contact.
<b>Health Effects - Eyes</b>	Product will cause conjunctival irritation. Contact can cause superficial keratitis and conjunctivitis.
<b>Health Effects - Skin</b>	Material will cause severe irritation. Contact may have the following effects:- severe pulmonary irritation.
<b>Health Effects - Ingestion</b>	Aspiration during swallowing or vomiting may severely damage the lungs. Swallowing may have the following effects:- severe pulmonary irritation. severe gastrointestinal irritation. irritation of mouth, throat and digestive tract.
<b>Health Effects - Inhalation</b>	Exposure to vapour at high concentrations may have the following effects:- severe irritation of nose, throat and respiratory tract.

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**4. FIRST AID MEASURES**

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<b>Special Instructions</b>	Do not induce vomiting. Obtain medical attention.
<b>First Aid - Eyes</b>	Immediately flood the eye with plenty of water for at least 20 minutes, holding the eye open. Apply drops of calcium gluconate to the eyes. Obtain medical attention urgently.
<b>First Aid - Skin</b>	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing as washing proceeds. Obtain medical attention. Contaminated clothing should be washed or dry-cleaned before re-use.
<b>First Aid - Ingestion</b>	Wash out mouth with water. Do not induce vomiting. If any material enters the lungs, for example during swallowing or vomiting, obtain medical attention urgently. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. If there is difficulty in breathing, give oxygen. Obtain medical attention urgently.
<b>First Aid - Inhalation</b>	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. If heartbeat absent, give external cardiac compression. Obtain medical attention urgently.
<b>Advice to Physicians</b>	Avoid aspiration. Treat symptomatically. Treat hypoxia with oxygen and ventilation as appropriate. The catalyst slurry reacts slowly with water so the use of a neutralising agent such as magnesia or sodium bicarbonate may reduce the effects of ingestion.

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**5. FIRE FIGHTING MEASURES**

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<b>Extinguishing Media</b>	Water based product : non-flammable. Keep containers and surroundings cool with water spray.
<b>Special Hazards of Product</b>	Containers may explode in heat of fire. This product may give rise to hazardous fumes in a fire.
<b>Protective Equipment for Fire-Fighting</b>	Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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<b>Personal Precautions</b>	Wear appropriate protective clothing. Wear respiratory protection. Material can create slippery conditions underfoot.
<b>Environmental Precautions</b>	No specific measures necessary.
<b>Spillages</b>	Small spillages may be flushed with large quantities of water. Large spillages should be collected for disposal. Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Remove leaking container to a safe place.

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**7. HANDLING AND STORAGE**

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<b>Handling</b>	Avoid contact with eyes, skin and clothing. Avoid splashing.
<b>Storage</b>	Storage area should be: under cover. cool. dry. well ventilated. out of direct sunlight. Store away from sources of heat or ignition. Storage temperature should be kept below 50 °C.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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<b>Occupational Exposure Standards</b>	
<b>Capsaicinoids</b>	Capable of causing respiratory sensitisation.
<b>Engineering Control Measures</b>	Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure.
<b>Respiratory Protection</b>	Respiratory protection if there is a risk of exposure to high vapour concentrations.
<b>Hand Protection</b>	PVC or rubber gloves.
<b>Eye Protection</b>	Chemical goggles if there is a risk of accidental spraying.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Liquid.
<b>Colour</b>	Orange.
<b>Odour</b>	Sharp. Strong.
<b>pH</b>	Not soluble in water.
<b>Boiling Range/Point (°C)</b>	Residual liquid: >100C
<b>Flash Point (PMCC) (°C)</b>	None.
<b>Solubility in Water (kg/m3)</b>	Aqueous emulsion
<b>Density (kg/m3)</b>	980.
<b>Auto-flammability (deg C)</b>	Not auto-flammable.
<b>Viscosity (cSt)</b>	2 at 25 °C.

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**10. STABILITY AND REACTIVITY**

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<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Exposure to direct sunlight. Temperatures in excess of 50 °C.
<b>Materials to Avoid</b>	Oxidising agents.
<b>Hazardous Decomposition Products</b>	Incomplete combustion will generate: oxides of carbon. carbon monoxide. acrid smoke and irritating fumes.

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**11. TOXICOLOGICAL INFORMATION**

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<b>Acute Toxicity</b>	Low order of acute toxicity.
<b>Irritancy - Eyes</b>	Strong eye irritant
<b>Irritancy - Skin</b>	A single 4h semi-occlusive application to intact rabbit skin produced severe irritation (mean scores for erythema or oedema much greater than 2).
<b>Skin Sensitisation</b>	The possibility of allergic sensitisation should be considered.
<b>Sub-acute/Subchronic Toxicity</b>	Exposure by inhalation has been reported to cause decreased activity and narcosis.
<b>Chronic Toxicity/Carcinogenicity</b>	None known.
<b>Genotoxicity</b>	No relevant studies identified.

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**12. ECOLOGICAL INFORMATION**

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<b>Mobility</b>	The product will infiltrate soil and contaminate water. If released to water the product will float.
<b>Persistence/Degradability</b>	The product is expected to be partially or slowly biodegradable.
<b>Bio-accumulation</b>	Product is not expected to bioaccumulate.
<b>Ecotoxicity</b>	The product is rated as slightly toxic to aquatic species.

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**13. DISPOSAL**

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<b>Product Disposal</b>	Remove leaking container to a safe place. Dispose of in accordance with all applicable local and national regulations.
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**14. TRANSPORT INFORMATION**

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<b>UN Number</b>	1950
<b>UN Proper Shipping Name</b>	Compressed gas, n.o.s.
<b>UN Class</b>	2.2
<b>ADR/RID/Land - Substance Identification Number</b>	1950

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**14. TRANSPORT INFORMATION**

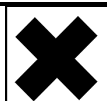
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<b>ADR/RID/Land - Bill of Freight Description</b>	Aerosols
<b>ADR/RID/Land - Class</b>	2
<b>ADR/RID/Land - Item No.</b>	5A
<b>IMDG - Proper Shipping Name</b>	
<b>IMDG - Class</b>	2.2
<b>IMDG - Ems Number</b>	F-D, SU
<b>IATA - Proper Shipping Name</b>	Aerosol, non-flammable, n.o.s.(less than 1 litre capacity)
<b>IATA - Packaging Group</b>	Not applicable.
<b>IATA - Class</b>	2.2

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**15. REGULATORY INFORMATION**

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**Labelling Information**

Irritant

**Aerosol Labelling**

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irritating to eyes and skin. Keep out of the reach of children.

**R phrases**

R38 Irritating to skin. R43 May cause sensitisation by skin contact.

**S phrases**

S2 Keep out of reach of children. S3 Keep in a cool place. S51 Use only in well ventilated areas. S24/25 Avoid contact with skin and eyes. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**EINECS Listing**

Preparation containing solely EINECS listed substances.

**EC Annex I Classification**

Xi - Irritant

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**16. OTHER INFORMATION**

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**Purpose of use** As per Product Data Sheet

**MSDS first issued** 13 October 2004

**MSDS data revised**

**Disclaimer**

All information and instructions in this MSDS are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein, even when supplied to third parties, is passed onto and is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with applicable federal, state and local laws and regulations.