



SAFETY DATA SHEET

Protox Activator, HYSAN 5 Ltr

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier Trade name Protox Activator, HYSAN 5 Ltr 1.2. Relevant identified uses of the substance or mixture and uses advised against ▼ Relevant identified uses of the substance or mixture Additive Restricted to professional users. Uses advised against None known. 1.3. Details of the supplier of the safety data sheet Company and address **Restore Solutions** 4 sourris court 4152 Queensland Carina Australia 0411501931 www.restoresolutions.com.au Contact person

Garry Carroll

E-mail admin@restoresolutions.com.au SDS date

3/1/2024

SDS Version 2.0

Date of previous version 9/2/2023 (1.0)

1.4. ▼Emergency telephone number

In an emergency call 000

In less severe situations call the Poisons Information Centre: 13 11 26 (Available 24/7 from anywhere in Australia) See section 4 "First aid measures".

SECTION 2: Hazards identification

This material is considered hazardous according to the Work Health and Safety Regulations.

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation. STOT SE 3; H335, May cause respiratory irritation. 2.2. Label elements Hazard pictogram(s)

Warning Hazard statement(s) Causes serious eye irritation. (H319) May cause respiratory irritation. (H335) Precautionary statement(s) General





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Prevention
Avoid breathing mist/vapour. (P261)
Wear eye protection/protective clothing. (P280)
Response
Call a POISON CENTER/doctor if you feel unwell. (P312)
If eye irritation persists: Get medical advice/attention. (P337+P313)
Storage
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
▼ Disposal
Dispose of contents/container in accordance with local regulation (P501)
Hazardous substances
citric acid
Additional labelling
Not applicable.
2.3. Other hazards
▼ Additional warnings
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1	40-60%	Eye Irrit. 2, H319 STOT SE 3, H335	
hydrogen chloride	CAS No.: 7647-01-0 EC No.: 231-595-7	3-5%	Skin Corr. 1B, H314 (SCL: 25.00 %) Skin Irrit. 2, H315 (SCL: 10.00 %) Eye Irrit. 2, H319 (SCL: 10.00 %) STOT SE 3, H335 (SCL: 10.00 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

SECTION 4: First aid measures

4.1. ▼ Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

▼ Eye contact

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.





Burns	
Not applicable. 4.2. Most important symptoms and effects, both acute and delayed	
Irritation effects: This product contains substances, which may cause irritation up	oon exposure to skin, eyes or lungs.
Exposure may result in an increased absorption potential of other hazardous sub	
4.3. Indication of any immediate medical attention and special treatment needed	
If eye irritation persists: Get medical advice/attention.	
Information to medics Bring this safety data sheet or the label from this product.	
SECTION 5: Firefighting measures	
5.1. Extinguishing modia	
5.1. Extinguishing media Not applicable.	
5.2. Special hazards arising from the substance or mixture	
Fire will result in dense smoke. Exposure to combustion products may harm your	
exposed to fire, should be cooled with water. Do not allow fire-extinguishing wate nearby surface waters.	er to enter the sewage system and
If the product is exposed to high temperatures, e.g. in the event of fire, dangerou	is decomposition compounds are
produced. These are:	
Halogenated compounds	
Carbon oxides (CO / CO2) 5.3. Advice for firefighters	
Wear self-contained breathing apparatus and protective clothing to prevent cont	act. Upon direct exposure call the
NSW Poisons Information Centre on 13 11 26 (Available 24/7) in order to obtain fu	
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
Ensure adequate ventilation, especially in confined areas.	
Avoid inhalation of vapours from spilled material.	
Contaminated areas may be slippery.	
6.2. Environmental precautions Avoid discharge to lakes, streams, sewers, etc.	
Keep unauthorized persons away from the spill	
6.3. Methods and material for containment and cleaning up	
Contain and collect spillage with non-combustible, absorbent material e.g. sand,	earth, vermiculite or diatomaceous
earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. A	void use of solvents
5.4. Reference to other sections	volu use of solvents.
See section 13 "Disposal considerations" on handling of waste.	
See section 8 "Exposure controls/personal protection" for protective measures.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Smoking, drinking and consumption of food is not allowed in the work area.	
See section 8 "Exposure controls/personal protection" for information on persona	al protection.
7.2. Conditions for safe storage, including any incompatibilities	
Containary that have been enough must be carefully recealed and light unright to	n nrovont logkago
Containers that have been opened must be carefully resealed and kept upright to Recommended storage material	o prevent leakage.
Containers that have been opened must be carefully resealed and kept upright to Recommended storage material Keep only in original packaging.	o prevent leakage.

Storage temperature

Dry, cool and well ventilated

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.





SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrogen chloride

Long term exposure limit (8 hours) (ppm): 5 Peak limitation Long term exposure limit (8 hours) (mg/m³): 7.5 Peak limitation

Workplace exposure standards for airborne contaminants (Safe Work Australia).

DNEL

hydrogen chloride		
Route of exposure:	DNEL:	
Inhalation	8 mg/m ³	
Inhalation	8 mg/m ³	
Inhalation	15 mg/m³	
Inhalation	15 mg/m³	
	Inhalation Inhalation Inhalation	

PNEC

No data available.

8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

▼ Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment that carries the RCM symbol.

Respiratory Equipment

Туре	Class	Colour	Standards	
No special when used as intended.				
Skin protection				
Work situation	Recommended	Type/Category	Standards	
When there is risk of splash- / intermittent exposure	Dedicated work clothing should be worn	-	-	Ŕ
Hand protection				
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
No special when used as intended	-	-	-	
Eve protection				





Work situation	Туре	Standards	
When there is risk of splash- / intermittent exposure	Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Form Liquid Colour Colourless Odour Mild Odour threshold (ppm) Testing not relevant or not possible due to the nature of the product. рΗ 2 Density (g/cm³) 1.25 (20 °C) Kinematic viscosity No data available www.restoresolutions.com.au Phase changes Melting point (°C) No data available Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°C) No data available Evaporation rate (n-butylacetate = 100) No data available Data on fire and explosion hazards Flash point (°C) Not applicable - based on structure Flammability (°C) Not applicable - based on structure Auto-ignition temperature (°C) Not applicable - based on structure Explosion limits (% v/v) Not applicable - based on structure **Explosive properties** Not applicable - based on structure Oxidizing properties Not applicable - based on structure Solubility Solubility in water Completely soluble n-octanol/water coefficient (LogKow) No data available Solubility in fat (q/L) No data available

SECTION 10: Stability and reactivity

10.1. Reactivity





This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods





Dispose of contents/container to an approved waste disposal plant.

▼ Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / I	14.2 D UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADG	-	-	-	-	-	-
IMDG	-		-	-	-	-
IATA	-	-	-	-	-	-
Addition Not of 14.6. Sp Not a 14.7. Tr	nmenta nal infor dangero pecial pr applicab	us goods according to ADR, IATA an ecautions for user le. in bulk according to Annex II of Ma				
SECTIC	DN 15: R	egulatory information				
 15.1. ▼Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions for application Restricted to professional users. Demands for specific education No specific requirements. ▼Control of major hazard facilities hydrogen chloride / Treshold quantity: 250 tonnes Additional information Not applicable. ▼The Australian Inventory of Industrial Chemicals (AIIC) citric acid is listed hydrogen chloride is listed Sources National Standard for the Control of Major Hazard Facilities [NOHSC:1014(2002)]. Model Work Health and Safety Regulations as at 1 January 2021. 15.2. Chemical safety assessment No 						
SECTIC	ON 16: O	ther information				
, H314 H315 H319 H335 The full None Abbrevi ADG AICIS AIIC	4, Cause 5, Cause 5, Cause 5, May ca text of i e known iations a = The A 5 = Austra = Austra	phrases as mentioned in section 3 s severe skin burns and eye damag s skin irritation. s serious eye irritation. ause respiratory irritation. dentified uses as mentioned in sect and acronyms ustralian Code for the Transport of ralian Industrial Chemicals Introduc alian Inventory of Industrial Chemic an Standard	tion 1 Dangerous Goods by Road & F ttion Scheme	Rail		

AS = Australian Standard

AS/NZS = Australian New Zealand Standard

ATE = Acute Toxicity Estimate

AUH = Hazard statements specific for Australia





BCF = Bioconcentration Factor CAS = Chemical Abstracts Service EINECS = European Inventory of Existing Commercial chemical Substances GHS = Globally Harmonized System of Classification and Labelling of Chemicals Hazchem = Hazardous chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. (""Marpol"" = marine pollution) NICNAS = National Industrial Chemicals Notification and Assessment Scheme (replaced by AICIS since 2020) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic RCM = Regulatory Mark of Conformity RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SCL = A specific concentration limit STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative WHS = Work Health and Safety Regulations Additional information The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Work Health and Safety Regulations. ▼ The safety data sheet is validated by HMI Other A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue

triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: AU-en