HURST SCIENTIFIC

Safety Data Sheet
Scavenger Formalin Neutraliser

SECTION 1: Identification

GHS Product identifier

Product name	Scavenger Formalin Neutraliser
Product number	SCAV-200M
Brand	Hurstchem

Other means of identification

Formalin Neutraliser

Supplier's details

Name	Hurst Scientific
Address	2 Transit Place 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. HYDROXYLAMINE HYDROCHLORIDE

Concentration	5 - 8 %
EC no.	226-798-2
CAS no.	5470-11-1

2. Urea

Concentration	2 - 5 %
EC no.	200-315-5
CAS no.	57-13-6

3. Water

Concentration	Balance
EC no.	231-791-2
CAS no.	7732-18-5

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
In case of skin contact	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
In case of eye contact	If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist transport to nearest medical facility for additional treatment.
If swallowed	do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Personal protective equipment for first-aid responders

Eye wash station, safety shower and First Aid kit.

Most important symptoms/effects, acute and delayed
No further relevant information available.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically based on judgement of doctor and individual reactions of patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use fire fighting measures that suit the environment.

Specific hazards arising from the chemical
No further relevant information available.

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Ventilate contaminated area thoroughly.

Environmental precautions
Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up
Use appropriate instruments to put the spilled material in a waste disposal container. Dispose of in accordance with regional regulations.

Reference to other sections
No dangerous substances are released. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

Precautions for safe handling
Avoid contact with skin, eyes and clothing. Do not ingest. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Keep containers tightly closed as glycerol is hygroscopic (absorbs water). Handle and open containers with care in a well-ventilated area.

Conditions for safe storage, including any incompatibilities
Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls
Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Goggles recommended during refilling.

Skin protection
Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

Body protection
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

Respiratory protection
If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Color	Colourless
Odor	Odourless
Odor threshold	Not determined.
Melting point/freezing point	Undetermined.
Boiling point or initial boiling point and boiling range	100 °C
Flammability	Not applicable.
Lower and upper explosion limit/flammability limit	Not determined.
Flash point	Not applicable.
Auto-ignition temperature	Product is not selfigniting.
Decomposition temperature	Not determined.
pH	Not determined.
Kinematic viscosity	Not determined.
Solubility	Fully miscible in water.
Vapor pressure	at 20°C 23 hPa (17.3 mm Hg)
Evaporation rate	Not determined.
Density and/or relative density	Not determined.
Relative vapor density	Not determined.

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of use.

Chemical stability
Stable under normal conditions of use.

Possibility of hazardous reactions
Stable under normal conditions of use.

Conditions to avoid
No decomposition if used according to specifications.

Incompatible materials
No further relevant information available.

Hazardous decomposition products

Water: In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
On the skin: No irritant effect. On the eye: No irritating effect. Sensitization:Sensitization possible through skin contact. Additional

toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Skin corrosion/irritation
No irritant effect.

Serious eye damage/irritation
No irritant effect.

Respiratory or skin sensitization
Sensitization possible through skin contact.

Germ cell mutagenicity
Data not available.

Carcinogenicity
Data not available.

Reproductive toxicity
Data not available.

Specific target organ toxicity (STOT) - single exposure
Data not available.

Specific target organ toxicity (STOT) - repeated exposure
Data not available.

Aspiration hazard
Data not available.

Additional information

HYDROXYLAMINE HYDROCHLORIDE: *TOXICITY:
typ. dose mode specie amount units other
LD50 orl mus 408 mg/kg
LD50 ipr mus 100 mg/kg
LDLo scu dog 70 mg/kg

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:
THR = HIGH via oral, intraperitoneal, and subcutaneous routes. Mutation data.

*CARCINOGENICITY: Not available

*MUTATION DATA:
test lowest dose | test lowest dose
---------- ---------- | ---------- ----------
dnr-esc 500 ug/plate | mmo-bcs 1 mol/L
mmo-omi 200 mmol/L | mmo-omi 1 mol/L
mmo-omi 20 mmol/L | mmo-omi 1 mol/L
mmo-omi 450 mmol/L | mmo-omi 1 mol/L
mmo-omi 1 mol/L | mmo-nsc 1 mol/L
mrc-smc 200 ppm | cyt-grh-par 2500 ug
otr-rat:emb 19500 ng/plate | cyt-mam:lym 500 mg/L

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA:
Status: Reported in EPA TSCA Inventory, 1983
EPA Genetic Toxicology Program, January 1984

From NIH:
dog LDLo subcutaneous 70mg/kg (70 mg/kg) "Abdernalden's Handbuch der Biologischen Arbeitsmethoden." Vol. 4, Pg. 1289, 1935.
mouse LD50 intraperitoneal 10mg/kg (10 mg/kg) National Technical Information Service. Vol. AD277-689,
mouse LD50 oral 408mg/kg (408 mg/kg) Acta Pharmacologica et Toxicologica. Vol. 6, Pg. 285, 1950.
mouse LD50 subcutaneous 125mg/kg (125 mg/kg) Acta Biologica et Medica Germanica. Vol. 21, Pg. 635, 1968.
rat LD50 oral 141mg/kg (141 mg/kg) BEHAVIORAL: CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD National Technical Information Service. Vol. OTS0555279,

From Sigma:

Hazard Codes Xn,N

Risk Statements 22-36/38-43-48/22-50

Safety Statements 22-24-37-61

RIDADR UN 2923 8/PG 2

WGK Germany 3

RTECS NC3675000

F 21

Urea: *TOXICITY:
typ. dose mode specie amount unit other
LDLO ORL DOM 511 MG/KG
LDLO SCU DOG 3000 MG/KG
LDLO IVN DOG 3000 MG/KG
LDLO SCU RBT 3000 MG/KG
LDLO IVN RBT 4800 MG/KG
LDLO SCU PGN 16 G/KG
LDLO SCU FRG 600 MG/KG

*AQTX/TLM96: OVER 1000 PPM.

*SAX TOXICITY EVALUATION: THR=MOD VIA SC, IV AND ORAL ROUTE.

*CARCINOGENICITY: Not available

*MUTAGENICITY: Not available

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA: Not available

SECTION 12: Ecological information

Toxicity
Data not available.

Persistence and degradability
Data not available.

Bioaccumulative potential
Data not available.

Mobility in soil
Data not available.

Other adverse effects
Data not available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Ensure waste disposal conforms to local waste disposal regulations.

Packaging disposal
Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific

makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).