

1. IDENTIFICATION

Product Identifier

Product Name SCAVEX AG
Chemical Name Dialdehyde-type hydrogen sulfide scavenger

Recommended use of the chemical and restrictions on use

Recommended use Aqueous hydrogen sulfide control applications
Restrictions on use For industrial use only

Supplier details

West Penetone Inc.
11411-160 Street
Edmonton, AB,
T5M3T7
Tel: 780-454-3919

Emergency Telephone Number

Canutec 1-(613)-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Skin sensitizer	Category 1B
Germ cell mutagenicity	Category 2
Specific target organ toxicity – repeated exposure	Category 2

Label Elements

WARNING

Hazard Statements

H315 + H320 - Causes skin and eye irritation
H317 - May cause an allergic skin reaction
H341 - Suspected of causing genetic defects (non-mammalian)
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (ingestion, skin)



Precautionary Statements - Prevention

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe mist/vapors/spray.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

P302 + P352, P332 + P313, P362 + P364 - IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before re-use.
P305 + P351 + P338, P337 + P313 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
P308 + P314 - If exposed or concerned: Get medical advice/attention if you feel unwell.

Precautionary Statements - Storage

P405 - Store locked up.

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
propylene glycol	57-55-6	30-60
glyoxal	107-22-2	10-30
ethylene glycol	107-21-1	0.0 - ≤ 1.5

4. FIRST AID MEASURES

Ingestion	Rinse mouth. Remove person to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed by medical personnel. Call a POISON CENTER or doctor/physician if you feel concerned or unwell.
Skin contact	Wash with plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs, get medical advice/attention. Take off immediately all contaminated clothing and wash it before re-use.
Inhalation	If difficulties occur after mist/vapors/spray have been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause stinging, tearing, redness, swelling, and blurred vision. Contact with skin may cause irritation with local redness. Prolonged or repeated exposure may cause sensitization by skin contact. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses. See Section 2 for possible delayed effects.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

No particular hazards known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Risk of slipping due to product leakage/spillage.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with plenty of water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Handling Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Use recommended personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight or temperatures >50°C (>122°F), away from incompatible materials.

Incompatible Materials Alkali, strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
glyoxal 107-22-2	TWA: 0.1 mg/m ³ inhalable fraction and vapor	Not listed	Not listed
ethylene glycol 107-21-1	100 mg/m ³ Ceiling	50 ppm/125 mg/m ³ Ceiling	Not listed

Appropriate engineering controls

Engineering Controls Under the intended modes of use, exposure control measures are not required.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side shields or goggles.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection Wear respiratory protection in case of vapor/aerosol release.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE :**

Clear, colorless to light yellow liquid

ODOR :

Odorless

ODOR THRESHOLD :

Not applicable

pH :

3.0-4.0

MELTING POINT / FREEZING POINT :

< -40°C (<-40°F)

BOILING POINT/BOILING RANGE :

Not available

FLASH POINT :

None

EVAPORATION RATE, water = 1 :

1

FLAMMABILITY (SOLID, GAS) :

Not applicable

VAPOR PRESSURE, mm Hg AT 20°C (68°F) :

Not available

VAPOR DENSITY (Air = 1) :

Not available

RELATIVE DENSITY AT 20°C (68°F) :

1.100-1.150

SOLUBILITY IN WATER :

Complete

PARTITION COEFFICIENT, N-OCTANOL/WATER :

Not available

AUTO-IGNITION TEMPERATURE :

Not available

DECOMPOSITION TEMPERATURE :

Not available

VISCOSITY AT 20°C (68°F) :

Not available

FLAMMABLE LIMITS :

UPPER : Not available **LOWER :** Not available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Avoid extreme temperatures. Store away from incompatible materials.

Incompatible Materials

Alkali, strong oxidizing agents

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

ATE_{mix} – LD50 oral – approx. >10,000 mg/kg (rat), LD50 dermal – approx. 4295 mg/kg (rabbit), LC50 inhalation-mists – approx. 14 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
propylene glycol 57-55-6	20000 mg/kg (rat)	20800 mg/kg (rabbit)	Not listed
glyoxal 107-22-2	>5000 mg/kg (rat)	>2000 mg/kg (rat)	5.79 mg/L (rat) – 4 hr
ethylene glycol 107-21-1	4000 mg/L (rat)	9530 uL/kg (rabbit)	Not listed

Information on likely sources of exposure

Ingestion	Expected to be a low ingestion hazard.
Skin corrosion/irritation	Mists/spray or exposure may cause skin irritation and possible sensitization.
Inhalation	Expected to be a low inhalation hazard. Mists/spray may irritate nose and throat.
Serious eye damage/irritation	Mists/spray or exposure may causes eye irritation.

Delayed and immediate effects and also chronic effects from short and long-term exposure

Respiratory or skin sensitization	Glyoxal (CAS 107-22-2)	1B May cause an allergic skin reaction
Germ cell mutagenicity	Glyoxal (CAS 107-22-2)	2 Suspected of causing genetic defects in non-mammalian studies
Carcinogenicity	No listed carcinogens.	
Reproductive toxicity	No information available.	
STOT - single exposure	Glyoxal (CAS 107-22-2)	3 Causes temporary irritation of respiratory tract
STOT - repeated exposure	Glyoxal (CAS 107-22-2)	2 May cause kidney damage after repeated ingestion or repeated skin contact with high doses.
Aspiration Hazard	None.	

Symptoms related to the physical, chemical and toxicological characteristics

Eye irritation including redness, swelling, and blurred vision. Skin irritation with local redness. Kidney damage after repeated ingestion or skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below. Expected to be non-toxic to aquatic organisms.

Chemical Name	Fish	Waterflea	Algae
propylene glycol 57-55-6	51600 mg/L: 96 h rainbow trout LC50	Not available	19000 mg/L: 96 h pseudokirchneriella subcapitata EC50
glyoxal 107-22-2	>460-<680 mg/L: 96 h Leusciscus idus LC50	404 mg/L: 48 h Daphnia magna EC50	>100 mg/L: 72 h Scenedesmus subspicatus EC50
ethylene glycol 107-21-1	≤41000 mg/L: rainbow trout LC50	Not available	1300-6500 mg/L: selenastrum capricornutum EC50

Persistence and degradability

Expected to be readily biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

Mobility in soil

No information available

Other adverse effects

No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN Number: Not regulated
UN Proper Shipping Name: Not regulated
Transport Hazard Class(es):
Class: TDG: Not regulated
US DOT: Not regulated
IMDG: Not regulated
Label(s): Not regulated
Packing Group: Not applicable
Marine Pollutant: No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not determined

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

HMIS Information:

Health: 1
Flammability: 0
Reactivity: 0

16. OTHER INFORMATION**Preparation Date**

15 April 2016

Revision Date

1 May 2018

Revision Note

Modifications to Section 1, 7, 11, 14, 15

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS