



Material Safety Data Sheet



Showershield

Section 1. Chemical product and company identification

Manufacturer : HG International b.v. **Code** : 476030164
Address : Damsluisweg 70 1332 EJ Almere **MSDS#** : 2.03
Country : Netherlands **Validation date** : 9/13/2010.
Telephone No.: : +31 (0)36 54 94 700 **Print date** : 9/13/2010.
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Supplier : Solstrand Trading **Fax** : +1.705.734.0857
Address : 60 Lockhart road Barrie, Ontario L4N 9G8 **Country** : Canada
Material uses : Consumer product.
In Case of Emergency : Chem. Tel Inc. (813) 248 0585 or Toll free (800) 255 3924

Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Exposure limits
propan-2-ol	67-63-0	30 - 100	Not available.
Silicone		5-15	Not available.
Sulphuric acid	7664-93-9	1 - 5	Not available.

Section 3. Hazards identification

Physical State and Appearance : Liquid.

Emergency overview : DANGER
FLAMMABLE.
Vapor may cause fire.
Do not smoke.
Use only in well-ventilated areas.
Keep away from heat, sparks and flame.
Avoid contact with eyes, skin and clothing.

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eyes : Irritating to eyes.
Skin : Can cause irritation.
Inhalation : Vapors may cause drowsiness and dizziness.
Ingestion : Can cause irritation.

Potential chronic health effects : **CARCINOGENIC EFFECTS**: Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [propan-2-ol]. Classified A2 (Suspected for human.) by ACGIH [Sulphuric acid].
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by overexposure: : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Over-exposure signs/symptoms : Not available.

[See toxicological Information \(section 11\)](#)

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Section 4. First aid measures

- Eye Contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to Physician** : Not available.

Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition Temperature** : Lowest known value: 399°C (750.2°F) (propan-2-ol).
- Flash Points** : Closed cup: 12°C (53.6°F). (Pensky-Martens.)
- Flammable limits** : Not available.
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...).
- Fire hazards in presence of various substances** : Flammable.
- Explosion hazards in presence of various substances** : Not available.
- Fire fighting media and instructions** : In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.
Highly flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

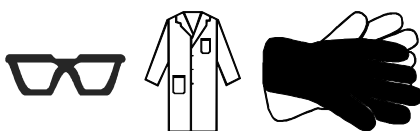
Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protection : Not available.

Personal protective equipment (Pictograms) :



Personal protection in case of a large spill : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name

propan-2-ol
Sulphuric acid

Exposure limits

Not available.
Not available.

[Consult local authorities for acceptable exposure limits.](#)

Section 9. Physical and chemical properties

Physical State and Appearance : Liquid.

Color : Colorless.

Odor : Alcohol like.

pH : Not applicable.

Relative density : 0.8 g/cm³ (20°C/ 68°F)

Viscosity : Not available.

Solubility : Easily soluble in the following materials: diethyl ether, acetone.
Insoluble in the following materials: cold water, hot water.

Flash point : Closed cup: 12°C (53.6°F). (Pensky-Martens.)

Flammability (solid, gas) : Not applicable.

Explosive properties : Not available.

Oxidizing properties : Not applicable.

Physical chemical comments : Not available.

Section 10. Stability and reactivity

Stability and Reactivity : The product is stable.

Conditions of instability : Keep away from heat, sparks and flame. Keep away from sources of ignition. Stable under recommended storage and handling conditions (see section 7).

Incompatibility with various substances : Not available.

Hazardous Decomposition Products : carbon oxides (CO, CO₂)

Hazardous polymerization : Will not occur.

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Section 11. Toxicological information

propan-2-ol	LD50	5045 mg/kg	Oral	Rat
	LD50	6410 mg/kg	Oral	Rabbit
	LD50	3600 mg/kg	Oral	Mouse
	LD50	12800 mg/kg	Dermal	Rabbit
	LD50	12800 mg/kg	Dermal	Rabbit
	LDLo	1537 mg/kg	Oral	Dog
	LDLo	3570 mg/kg	Oral	human
	LDLo	5272 mg/kg	Oral	man
Sulphuric acid	LD50	2140 mg/kg	Oral	Rat

Chronic effects on humans : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [propan-2-ol]. Classified A2 (Suspected for human.) by ACGIH [Sulphuric acid].

Contains material which causes damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, teeth.

Other toxic effects on humans : Hazardous by the following route of exposure: of eye contact (irritant).
Non-irritant for skin.

Special remarks on toxicity to animals : Not available.

Special remarks on chronic effects on humans : Not available.

Special remarks on other toxic effects on humans : Not available.

Specific effects

Carcinogenic effects : Contains material which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

propan-2-ol	Pimephales promelas (EC50)	48 hour(s)	10000 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	>1400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	6550 mg/l
	Pimephales promelas (LC50)	96 hour(s)	9640 mg/l
	Pimephales promelas (LC50)	96 hour(s)	10400 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l
	Pimephales promelas (LC50)	96 hour(s)	11130 mg/l

BOD and COD : Not available.

Biodegradable/OECD : Not available.

Mobility : Not available.

Products of degradation : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and water, sulfur oxides (SO₂, SO₃...).

Toxicity of the products of biodegradation : The product itself and its products of degradation are not toxic.

Special remarks on the products of biodegradation : Not available.

Section 13. Disposal considerations






Waste information : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Waste stream : Not available.

Consult your local or regional authorities.

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Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG II (propan-2-ol)	3	II		Limited quantity Yes. Remarks Limited Quantity
TDG Classification	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG II (propan-2-ol)	3	II		Remarks Limited Quantity
ADR/RID Class	1993	UN 1993, "dangerous goods in limited quantities of class 3", II, ADR (propan-2-ol)	3	II		Hazard identification number 33 Reportable quantity 12 Remarks Dangerous goods in limited quantities
IMDG Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG II (propan-2-ol)	3	II		Emergency schedules (EmS) F-E, S-E Reportable quantity 30 Remarks Dangerous goods in limited quantities
IATA-DGR Class	1993	"dangerous goods in limited quantities of class 3" UN 1993, PG II (propan-2-ol)	3	II		-

Section 15. Regulatory information

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
No products were found.

International regulations

EINECS : Not available.

DSCL (EEC) : R11- Highly flammable.
R36- Irritating to eyes.
R67- Vapors may cause drowsiness and dizziness.

International lists : Australia (NICNAS): propan-2-ol; Sulphuric acid; water

China: propan-2-ol; Sulphuric acid; water

Germany water class: propan-2-ol; Sulphuric acid

Japan (MITI): propan-2-ol; Sulphuric acid; water

Japan (MOL): propan-2-ol

Korea (TCCL): propan-2-ol; Sulphuric acid; water

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Philippines (RA6969): propan-2-ol; Sulphuric acid; water

Section 16. Other information

Label Requirements : FLAMMABLE.
Vapor may cause fire.
Do not smoke.
Use only in well-ventilated areas.
Keep away from heat, sparks and flame.

Hazardous Material Information System (U.S.A.)

Health	1
Fire hazard	3
Reactivity	0
Personal protection	C

National Fire Protection Association (U.S.A.)



References : Not available.

Other special considerations : Not available.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.