

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

1.1 Product identifiers

Product name : GoldiSol
 Product number : GTS05
 Brand : Hidex
 REACH NO. : A registration number is not available for this mixture. All the substances used within the mixture are either; Pre-REACH registered, fully REACH Registered, exempt from registration or the annual tonnage does not require registration.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use: For use in Scientific Research and Development ONLY. Not for consumer use.

Application of the substance / the mixture: Liquid Scintillation Cocktail

1.3 Details of the supplier of the safety data sheet

Supplier : Hidex Chemicals Oy
Address : Lemminkäisenkatu 62, FIN-20520, Turku, Finland
Telephone : +358 10 843 5570
Website : www.hidex.com
E-mail address : chemicals@hidex.com

1.4 Emergency telephone numbers

Poison Centres

Country	Language	European Poison Centre	Phone	Website
Belgium	French	Centre Antipoisons	070 245 245 (free, 24/7)	https://www.centreantipoisons.be
	Dutch	Antigif centrum	070 245 245 (free, 24/7)	http://www.antigifcentrum.be
Finland	Finnish Swedish English	Helsinki University Hospital- Poison Information Centre	0800 147 111 (free, 24/7) 09 471 977 (charged)	https://www.hus.fi/en/potilaalle/sairaalat-ja-toimipisteet/myrkytystietokeskus
France	French English	Service national d'assistance réglementaire REACH	+ 33 (0) 1 45 42 59 59 (free, 24/7) This number takes you through to local poison centre numbers for the different regions	https://reach-info.ineris.fr/Numero_orfila
Germany	German English	Local Poison Centres:		
		Berlin	+49 (0) 30 19240	https://giftnotruf.charite.de
		Bonn	+49 (0) 228 19240	http://www.gizbonn.de
		Erfurt	+49 (0) 361 730730	https://www.gqiz-erfurt.de/home.html
		Freiburg	+49 (0) 761 19240	https://www.uniklinik-freiburg.de/giftberatung.html
		Gottingen	+49 (0) 551 19240	https://www.giz-nord.de/cms/index.php
		Homburg/Saer	+49 (0) 6841 19240	http://www.uniklinikum-saarland.de/de/einrichtungen/kliniken_institute/
		Mainz	+49 (0) 6131 19240	http://www.giftinfo.uni-mainz.de
		Munchen	+49 (0) 89 19240	http://www.toxinfo.med.tum.de

Cont...

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Poison Centres

Country	Language	European Poison Centre	Phone	Website
Hungary	Hungarian	Health toxicology information service	+36 80 201 199 (free 24/7 - only from Hungary) +36 1 476 6464 (24/7, can be called for a normal fee from abroad)	https://www.nnk.gov.hu/index.php/kemiai-biztonsagi-es-kompetens-hatosagi-fo/egeszseguigy-toxikologiai-tajekoztato-szolgalat
Italy	Italian	Centro Antivelini firenze	+39 055 794 7819 (24/7)	Presentazione (antiveleni.altervista.org)
Ireland	English	Poisons information Centre of Ireland	+353 1 809 21 66 (8am-10pm / 7 days a week) +353 1 809 25 66 (24/7, healthcare profession only)	https://www.poisons.ie/
Lithuania	Lithuanian English	Poison Information Bureau part of The State Medicines Control Agency	+370 8-5 236 20 52 (free, 24/7)	http://www.apsinuodijau.lt/pirma-pagalba/
Netherlands	French English Dutch	National Poisons Information Center / University Medical Center Utrecht	+31 88 75 585 61	https://www.umcutrecht.nl/nl
Poland	Polish	National Poison Information Centres:		
		Krakow	+48 12 411 99 99	http://www.oit.cm.uj.edu.pl
		Gdansk	+48 58 682 04 04	http://www.pctox.pl/new/
		Poznań	+48 61 847 69 46	N/A
		Warszawa	+48 607 218 174	N/A
Romania	Romanian	National Institute for Public Health, Ministry of Health		
		CNMRMC	+40 213 183 606	N/A
		Spitalul Clinic de Urgenta Bucuresti	+40 215 992 300 int. 291	N/A
		Spitalul Clinic Judetean de Urgenta Targu Mures	+40 265.212.111	N/A
Slovakia	Slovak	National Toxicological Information Centre	+421 2 5477 4166	http://www.ntic.sk/ntic_en.php
Spain	Spanish	National Emergency Telephone Number of Spanish Poison Centre	+34 91 562 04 20	https://www.miteco.gob.es/es/calidad-y-evaluacion-ambiental/temas/productos-quimicos/porta-reach-clp/novedades/detalle_novedades.aspx?id=tc:30-193752-16
Sweden	Swedish English	Swedish Poison Information Centre	112 (24/7) Emergency 010-456 6700 Less urgent	In English - Giftinformationscentralen
UK	English	National Poisons Information Service NHS	+44 (0) 344 892 0111 - Healthcare Professionals ONLY 111 – General public	https://www.npis.org/Industrynotify.html https://www.nhs.uk/nhs-services/

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquid	Category 2	H225
Skin corrosion	Category 1B	H314
Eye Damage	Category 1	H318
Specific Target Organ Toxicity - SINGLE EXPOSURE	Category 3	H336
Aquatic	Chronic 2	H411

For the full text of the H-Statements mentioned here - see section 16

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard
pictograms



GHS02



GHS05



GHS07



GHS09

Signal word: **Danger**

Contains Propan-2-ol and Dodecyldimethyltetradecylammonium hydroxide

Hazard statements

H225	Highly flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/ vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment

This product does not contain any substances that are known to be PBT or vPvB.

Endocrine Disrupting Properties

This product does not contain any substances that have endocrine disrupting properties.

SECTION 3: Composition / Information on Ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with non-hazardous additions.

Hazardous components:

Propan-2-ol						
CAS NUMBER: 67-63-0	Flammable liquid	Category 2	H225	50-80%	ATE:	n/a
EC NUMBER: 200-661-7	Eye damage / eye irritation	Category 2	H319		M Factor:	n/a
REACH: 01-2119457558-25-XXXX	Specific Target Organ Toxicity - SINGLE EXPOSURE	Category 3	H336		SCL:	n/a
Dodecyldimethyltetradecylammonium hydroxide						
CAS NUMBER: 94199-93-6	Acute toxicity	Category 4	H302	15-30%	ATE:	n/a
EC NUMBER: 303-469-2	Skin corrosion	Category 1B	H314		M Factor:	n/a
REACH: N/A	Aquatic	Acute 1	H400		SCL:	n/a
	Aquatic	Chronic 1	H410			

For full H-phrases, see section 16.

SECTION 4: First Aid Measures**4.1 Description of first aid measures**

General information: Consult a DOCTOR. Show this safety data sheet to the doctor in attendance.

If inhaled: Move person into fresh air. Keep unconscious person in resting position. Consult a DOCTOR.

In case of contact with skin contact: Wash off immediately with plenty of water. Wash contaminated clothing before reuse. If irritation persists, consult a DOCTOR.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a DOCTOR. Protect unharmed eye.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed:
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment:
No further relevant information available.

SECTION 5: Firefighting Measures**5.1 Extinguishing media**

Suitable extinguishing agents: Carbon Dioxide, dry powder or water spray.
Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:
No further relevant information available.

5.3 Advice for fire-fighters

Special Protective equipment: Wear self-contained respiratory protective device and a fully protective suit.

Further Information: Cool closed containers exposed to fire with water spray. Contaminated water must not be discharged into drains.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions: Use personal protective equipment and ensure adequate ventilation.
Keep unprotected persons away.

Special precautions: Corrosive formulation.

6.2 Environmental precautions Inform respective authorities in case of seepage into water course.
Do not allow to enter surface or ground water.
Dilute with plenty of water.
Collect spillage

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Pick up mechanically
Dispose in according to local regulations (see section 13).

6.4 Reference to other sections 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**7.1 Precautions for safe handling**

Advice on safe handling: Wear personal protective equipment.
Avoid contact with skin and eyes and clothing.
Avoid breathing of dusts and mists.
Ensure good ventilation/exhaustion at the workplace.
Use only in area provided with appropriate exhaust ventilation.
Use explosion-proof equipment and non-spark tools.
Prevent formation of aerosols.

Information about fire and explosion protection:
Keep away from sources of ignition.
Take precautionary measures against static discharges
Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a dry, cool and well ventilated place.

Information about storage in one common storage facility: Store in a dry, cool and well ventilated place.

Further information about storage conditions: Keep container tightly sealed.
Protect from exposure to the light.

7.3 Specific end use(s) Advised temperature of storage: 10-20 °C.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters: Components with workplace control parameters:

Component			CAS - No	
Propan-2-ol			67-63-0	
Country	Eight hours		Limit value - Short term	
	ppm	mg/m ³	ppm	mg/m ³
Austria	200	500	800	2000
Belgium	200	500	400	1000
Finland	200	500	250	620
France			400	980
Germany (AGS)	200	500	400	1000
Germany (DFG)	200	500	400	1000
Hungary		500		2000
Ireland	200		400	
Latvia		350		600
Poland		900		1200
Romania	81	200	203	500
Singapore	400	983	500	1230
South Korea	200	480	400	980
Spain	200	500	400	1000
Sweden	150	350	250	600
Switzerland	200	500	400	1000
United Kingdom	400	999	500	1250

8.2 Exposure controls

General protective and hygienic measures:

Handle in accordance with good industrial hygiene & safety practice.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Avoid inhalation of dusts and mists.
Do not eat, drink, smoke or sniff while working.
Wear suitable gloves, body and eye protection and a face shield.

Personal Protective Equipment:

Respiratory protection:

Skin protection:

No personal respiratory protective equipment normally required.
Handle with protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Splash contact

Material: Nitrile-rubber, Minimum layer thickness: 0.4 mm, Break through time: 30 min. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye / face protection:

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).

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Body protection:	Protective work clothing – complete suit protecting against chemicals. The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specified workplace.
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Form:	Colourless
Colour:	According to specification
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	>12
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	82 °C
Flash point:	12 °C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	399 °C
Decomposition temperature:	Not determined
Self-igniting:	Product is not self igniting
Danger of explosion:	Product does not present explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	35 mm Hg @ 20 °C
Density at 20 °C:	0.83 gm/cm ³
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Fully miscible
Particle size	Not applicable
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined

9.2 Other information

Information with regard to physical hazard class:	No additional information
Other Safety Characteristics:	No additional information

SECTION 10: Stability and Reactivity

- 10.1 Reactivity:** No data available.
- 10.2 Chemical stability** Stable under recommended storage conditions.
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions:** Reacts with strong oxidising agents and flammable substances.
- 10.4 Conditions to avoid** Light, ignition sources, excess heat and exposure to moist air.
- 10.5 Incompatible materials:** Strong oxidising agents and strong acids.
- 10.6 Hazardous decomposition products:** Toxic fumes of nitrogen oxides, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological Information**11.1 Information on toxicological effects**

Component	CAS - No	LD50 / 48 hours
Propan-2-ol	67-63-0	LD50 rat >2,000 mg/kg (rat) oral LD50 rat >2,000 mg/kg (rabbit) dermal LC50 rat >20 mg/kg (rat) inhalation, vapours

- Acute toxicity:** Based on available data, classification criteria not met.
- Skin corrosion / irritation:** Causes serious skin burns. Strong caustic effect.
- Serious eye damage / eye irritation:** Causes serious eye damage. Strong caustic effect.
- Respiratory sensitisation:** Based on available data, classification criteria not met
- Germ cell mutagenicity:** Based on available data, classification criteria not met.
- Carcinogenicity:** Based on available data, classification criteria not met.
- Reproductive toxicity:** Based on available data, classification criteria not met.
- Specific Target Organ Toxicity – Single Exposure:** Inhalation, Oral - May cause drowsiness or dizziness
- Specific Target Organ Toxicity – Repeated Exposure:** Based on available data, classification criteria not met.
- Aspiration hazard:** Based on available data, classification criteria not met
- Additional information:** The toxicological properties have not been fully investigated.

11.2 Information on other hazards

- Endocrine disrupting properties** No adverse health effects caused by endocrine disrupting properties are reported (see Section 12 for ecological information).
- Other information** No additional health effects are reported.

SECTION 12: Ecological Information**12.1 Toxicity****Aquatic toxicity:** Toxic to aquatic life with long lasting effects

Component	CAS – No	LC50
Propan-2-ol	67-63-0	Pimephales promelas (fathead minnow) 9,640 mg/l – 96 h Daphnia magna (Water flea) - 5,102 mg/l – 24 h

12.2 Persistence and degradability: No further relevant information available.**12.3 Bio accumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**12.5 Results of PBT and vPvB Assessment:** This product contains a substance that is PBT/vPvB**12.6 Endocrine disrupting properties:** This product contains no substances which have endocrine disrupting properties.**12.7 Other adverse effects****Additional ecological information:** Cannot be disposed of into sewage system.**SECTION 13: Disposal Considerations****13.1 Waste treatment methods****Product:** Must not be disposed together with household waste.**Uncleaned Packaging:** Disposal must be made according to official regulations.**SECTION 14: Transport Information****14.1 UN-Number****ADR, ADN, IMDG, IATA** UN2920**14.2 UN proper shipping name -****ADR, ADN, IMDG, IATA** CORROSIVE LIQUID, FLAMMABLE, N.O.S (Quaternary ammonium hydroxide in Propan-2-ol)**14.3 Transport hazard class(es)****ADR, ADN, IMDG, IATA** 8
Class 3**14.4 Packing group****ADR, IMDG, IATA** II**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user****Danger code (Kemler):** Warning: FLAMMABLE, CORROSIVE liquid.**EMS Number:** 30**EMS Number:** F-E,S-E**14.7 Transport in bulk according to IMO instruments****Limited quantities (LQ)** 1L**Excepted quantities (EQ)** Code: E1**Maximum net quantity per inner packaging:** 30 ml**Maximum net quantity per outer packaging:** 1000 ml

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Transport category 3
Tunnel restriction code D/E
IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S (Quaternary ammonium hydroxide in Propan-2-ol), 8, II

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

Changes from previous version:

Section 1—UFI removed
Section 2—updated classification and label elements
Section 3—updated composition
Section 4—updated first-aid instructions
Section 11—updated toxicological data and added endocrine disruptor information
Section 12—added endocrine disruptor information and vPvB information

Hazard statements

H225 Highly flammable liquid and vapour
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

This based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

NIOSH: National Institute of Occupational Safety and Health

LL50: Loading rate of test substance resulting in 50% mortality)

LD50: Lethal dose, 50 percent

LC50: Lethal Concentration, 50 percent