HYDRANAL™KetoSolver

34738-500ML

Version 1.7 Revision Date 06.11.2025

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

1.1. Product identifier

Product name	:	HYDRANAL™KetoSolver
SDS-number	:	000000020509
Type of product	:	Mixture
Remarks	:	SDS according to Art. 31 of Regulation (EC) 1907/2006.

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

Use of the Substance/Mixture	:	Laboratory chemicals
Uses advised against	:	none

1.3. Details of the supplier of the safety data sheet

Company	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany	Solstice Advanced Materials US, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
Telephone	:	(49) 5137-999 0	
For further information, please contact:	:	SafetyDataSheet@solstice.com	

1.4. Emergency telephone number

Emergency telephone number	:	+1-703-527-3887 (ChemTrec-Transport) +1 303-739-1378 (Medical)
	:	Poison Control Center: United Kingdom: (+44) 844 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids Category 2
H225 Highly flammable liquid and vapour.
Skin irritation Category 2
H315 Causes skin irritation.
Eye irritation Category 2
H319 Causes serious eye irritation.
Reproductive toxicity Category 1B
H360D May damage the unborn child.
Specific target organ toxicity - single exposure Category 3 - Central nervous system
H336 May cause drowsiness or dizziness.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms :



Signal word : Danger

Hazard statements :	H225	Highly flammable liquid and vapour.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H360D	May damage the unborn child.
Precautionary statements :	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302 + P352	IF ON SKIN: Wash with plenty of water.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Hazardous components : 1-methoxy-2-propanol; monopropylene glycol methyl ether

which must be listed on the label		imidazole
Special labelling of certain products:	:	Restricted to professional users.

2.3. Other hazards

Do not breathe vapours or spray mist. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	CAS-No. Index-No. EC-No.	Classification 1272/2008	Concentration	Remarks
1-methoxy-2-propanol; monopropylene glycol methyl ether	107-98-2 603-064-00-3 203-539-1	Flam. Liq. 3; H226 STOT SE 3; H336; Central nervous system	>= 70 % - < 90 %	
ethyl alcohol	64-17-5 603-002-00-5 200-578-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 15 % - < 30 %	Eye Irrit. 2; H319:>= 50 %
imidazole	288-32-4 613-319-00-0 206-019-2	Acute Tox. 4; H302; Oral Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D	>= 1 % - <= 3 %	
Imidazole hydrobromide	101023-55-6 483-310-2		>= 1 % - <= 3 %	N.C.*

N.C.* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:
Move to fresh air. If symptoms persist, call a physician.

Skin contact:
Wash off immediately with plenty of water. Call a physician if irritation develops or persists.

Eye contact:
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.

Ingestion:
When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms. :

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water spray
Foam
Carbon dioxide (CO2)
Dry powder

Extinguishing media which shall not be used for safety reasons:
High volume water jet

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:
Avoid exposure - obtain special instructions before use. Exhaust ventilation at the object is necessary.

Advice on protection against fire and explosion:
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Normal measures for preventive fire protection.

Hygiene measures:
Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C) Protect from atmospheric moisture and water.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
1-methoxy-2-propanol; monopropylene glycol methyl ether	EU ELV SKIN_DES			Can be absorbed through the skin.
1-methoxy-2-propanol; monopropylene glycol methyl ether	EH40 WEL SKIN_DES			Can be absorbed through the skin.
1-methoxy-2-propanol; monopropylene glycol methyl ether	EH40 WEL STEL	560 mg/m3 150 ppm		
1-methoxy-2-propanol; monopropylene glycol methyl ether	EH40 WEL TWA	375 mg/m3 100 ppm		
1-methoxy-2-propanol; monopropylene glycol methyl ether	EU ELV STEL	568 mg/m3 150 ppm		Indicative
1-methoxy-2-propanol; monopropylene glycol methyl ether	EU ELV TWA	375 mg/m3 100 ppm		Indicative
ethyl alcohol	EH40 WEL TWA	1.920 mg/m3 1.000 ppm		

EU ELV - EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended
SKIN_DES - Skin designation:
EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended
STEL - Short term exposure limit
EH40 WEL - UK. EH40 Workplace Exposure Limits (WELs), as amended
TWA - Time weighted average

DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
ethyl alcohol	Workers / Acute local effects		1900 mg/m3	Inhalation	
ethyl alcohol	Workers /		343mg/kg	Skin contact	

	Long-term systemic effects		bw/d		
ethyl alcohol	Workers / Long-term systemic effects		950 mg/m3	Inhalation	
ethyl alcohol	Consumers / Long-term systemic effects		114 mg/m3	Inhalation	
ethyl alcohol	Consumers / Acute local effects		950 mg/m3	Inhalation	
ethyl alcohol	Consumers / Long-term systemic effects		206mg/kg bw/d	Skin contact	
ethyl alcohol	Consumers / Long-term systemic effects		87mg/kg bw/d	Ingestion	
imidazole	Workers / Long-term systemic effects		10,6 mg/m3	Inhalation	
imidazole	Workers / Long-term systemic effects		1,5mg/kg bw/d	Skin contact	

Component	Environmental compartment / Value	Remarks
ethyl alcohol	Fresh water: 0,96 mg/l	
ethyl alcohol	Marine water: 0,79 mg/l	
ethyl alcohol	Fresh water sediment: 3,6 mg/kg	
ethyl alcohol	Soil: 0,63 mg/kg	
imidazole	Fresh water: 0,13 mg/l	Assessment factor: 1000

imidazole	Marine sediment: 0,034 mg/l	Assessment factor: 10000
imidazole	Sewage treatment plant: 10 mg/l	Assessment factor: 100
imidazole	Fresh water sediment: 0,336 mg/kg dw	
imidazole	Marine sediment: 0,034 mg/kg dw	
imidazole	Soil: 0,0425 mg/kg dw	

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.
Do not breathe vapours or spray mist.

Engineering measures
Use with local exhaust ventilation.

Personal protective equipment
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:
Glove material: butyl-rubber
Break through time: > 480 min
Glove thickness: 0,7 mm
Butoject® 898
Gloves must be inspected prior to use.
Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.
Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time.
Manufacturer´s directions for use should be observed because of great diversity of types .
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:
Safety goggles

Skin and body protection:
Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	:	liquid
(b) Colour	:	colourless
(c) Odour	:	slight, original odour
(d) Melting point/freezing point	:	No data available
(e) Boiling point/boiling range	:	85 °C at 1.013 hPa
(g) Lower and upper explosion limit	:	Lower explosion limit No data available
	:	Upper explosion limit No data available

(h) Flash point	:	21 °C
(i) Auto-ignition temperature	:	No data available
(j) Decomposition temperature	:	No decomposition if used as directed.
(k) pH	:	No data available
(l) Viscosity, kinematic	:	No data available
(m) Solubility(ies)	:	Water solubility: completely miscible
(n) Partition coefficient: n-octanol/water	:	No data available
(o) Vapour pressure	:	No data available
(p) Density and / or relative density	:	0,910 g/cm3 at 20 °C
(q) Relative vapour density	:	No data available
(r) Particle characteristics	:	No data available

9.2 Other Information

Polymer characteristics	:	No data available
Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Protect from atmospheric moisture and water.
Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents
Alkali metals
Ammonia
Peroxides

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

Acute oral toxicity:
No data available

Acute dermal toxicity:
No data available

Acute inhalation toxicity:
No data available

Acute toxicity (other routes of administration):

No data available

(b) Skin corrosion/irritation:
No data available

(c) Serious eye damage/eye irritation:
No data available

(d) Respiratory or skin sensitisation:
No data available

(h) STOT-single exposure:
No data available

(i) STOT - repeated exposure:
No data available

(j) Aspiration hazard:
No data available

11.2. Information on other hazards

Endocrine disrupting properties
No data available

Other information:
No data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:
No data available

Toxicity to aquatic plants:
No data available

Toxicity to aquatic invertebrates:
No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:
Dispose according to legal requirements.

Packaging:
Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:
Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006
For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number or ID number
ADR/RID:1993 IMDG:1993 IATA:1993

14.2 UN proper shipping name
ADR/RID:FLAMMABLE LIQUID, N.O.S.(1-METHOXY-2-PROPANOL, ETHANOL)

IMDG:FLAMMABLE LIQUID, N.O.S.(1-METHOXY-2-PROPANOL,ETHANOL)
IATA:Flammable liquid, n.o.s.(1-Methoxy-2-propanol, Ethanol)

14.3 Transport hazard class(es)
ADR/RID:3 IMDG: 3 IATA: 3

14.4 Packaging group
ADR/RID:II IMDG: II IATA: II

14.5 Environmental hazards
ADR/RID:no Marine pollutant: no

14.6 Special precautions for user
Special Provision 640DSpecial Provision 640DIMDG Code segregation group according chapter 3.1.4.4 : NONE,

14.7 Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

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

Basis	Value	Remarks
Directive 2012/18/EC Listed in Regulation : P5c: FLAMMABLE LIQUIDS	**Quantity**: 5.000.000 kg **Quantity**: 50.000.000 kg	
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w).

Other inventory information

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

Australia. Inventory of Industrial Chemicals (AIIC), as amended
Not in compliance with the inventory

Canada. Domestic Substances List (DSL), as amended
Not in compliance with the inventory

Japan. Kashin-Hou Law List
Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
Not in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)
Not in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
Not in compliance with the inventory

Note
Note: Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from SafetyDataSheet@solstice.com.

Taiwan Chemical Substance Inventory (TCSI)
Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

1-methoxy-2-propanol; monopropylene glycol	:	H226	Flammable liquid and vapour.

methyl ether		H336	May cause drowsiness or dizziness.
ethyl alcohol	:	H225	Highly flammable liquid and vapour.
		H319	Causes serious eye irritation.
imidazole	:	H302	Harmful if swallowed.
		H314	Causes severe skin burns and eye damage.
		H318	Causes serious eye damage.
		H360D	May damage the unborn child.

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:
EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very biaccumulative substance
PBT Persistent, bioaccmulative und toxic substance

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