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

#### 1.1 Product identifiers

Product name : ProScint Gel+ Product number : PSGel+ 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.

#### UFI - Unique Formula Identifier Code: TS00-00QE-600R-T8GN

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

Scientific Research and Development ONLY (Sector of Use: SU24). Not for consumer use.

Application of the substance / the mixture: Liquid Scintillation Cocktail ONLY.

### 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

Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

#### **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 reglementaire 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	Local Poison Centres:									
	English	Berlin	+49 (0) 30 19240	https://qiftnotruf.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							

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Poison Centres - Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.

Poison Centres – Call your local poison centre quoting the Unique Formula Identifier Code given in section 1.1.  Country Language European Poison Phone Website				
Country	Language	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/egeszsegugyi-toxikologiai-tajekoztato- szolgalat
Italy	Italian	Centro Antivelni 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 Infor		
		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 F	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/portal-reach-clp/novedades/detalle_novedades.aspx?id=tcm: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 and vapour	Category 3	H226
Acute toxicity, Oral	Category 4	H302
Skin irritation	Category 2	H315
Eye damage	Category 1	H318
Specific Target Organ Toxicity (STOT) Single Exposure	Category 3	H335
Respiratory System		
Aquatic	Chronic 2	H411
For the full text of the U Statements mentioned here.	a coction 16	

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



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### 2.2 Label elements

Classification according to Regulation (EC) No 1272/2008:

### **Hazard pictograms**









Signal word

Danger

Contains 1,2,4-trimethylbenzene and Alcohols, C11-14-iso-, C13-rich, ethoxylated

### **Hazard statements**

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects

### **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310+P331	IF SWALLOWED: Immediately call a POISON CENTRE/ doctor. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin
	with water/shower.
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position.

### 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**

### 3.1 Chemical characterisation: Mixtures

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

## **Hazardous components:**

1,2,4-trimethylbenzene					
CAS #: 95-63-6	Flammable liquid category 3	H226	40-60%	ATE:	N/A
EINECS: 202-436-9	Eye irritation category 2	H319		M Factor:	N/A
REACH: 01-21194-72135-42- Acute toxicity, inhalation category 4 H332 SCL		SCL	N/A		
XXXX	Specific Target Organ Toxicity - Single	H335			
	Exposure				
	Skin irritation respiratory system category 2	H315			
	Chronic aquatic 2	H411			
Alcohols C11-14-iso ethoxyl	ated				



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CAS #: 78330-21-9	Acute toxicity oral 4	H302	40-60%	ATE:	N/A
REACH: N/A	Eye damage category 1	H318		M Factor:	N/A
	Chronic aquatic category 3	H412		SCL	N/A
Sodium 1,4-bis(1,3-dimethy	lbutyl) sulphosuccinate				
CAS #: 2373-38-8	Acute toxicity oral category 4	H302	1-3%	ATE:	N/A
EC-No: 219-147-9	Skin irritation category 2	H315		M Factor:	N/A
REACH: Registered	Eye damage category 1	H318		SCL	N/A
Phosphoric acid, 2-ethylhexyl ester					
CAS #: 12645-31-7	Skin Corrosion category 1a	H314	0.5-2%	ATE:	N/A
EC No: 235-741-0	Eye irritation category 1	H318		M Factor:	N/A
REACH: Registered				SCL	N/A

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

Cont...

### **SECTION 4: First Aid Measures**

4.1 Description of first aid measures

**General information:** Consult a doctor and show this safety data sheet to the doctor in attendance.

If inhaled: Move person into fresh air.

In case of contact with skin contact: Wash off with plenty of water.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and 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 needed

No further relevant information available.

# **SECTION 5: Fire Fighting 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: This product is combustible.

5.3 Advice for fire-fighters

**Special Protective equipment:** Wear self-contained respiratory protective device.

Wear 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:** Keep away from ignition sources.

Use personal protective equipment. Keep unprotected persons away.

**Special precautions:** Particular danger of slipping on leaked/spilled product.



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**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.

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).

Use neutralising agent 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.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**Information about fire and explosion protection:** Keep away from sources of ignition.

Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

**Information about storage in one common storage facility:** Not required.

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

**7.3 Specific end use(s)**Advised temperature of use: 18-25°C

# **SECTION 8: Exposure Controls / Personal Protection**

#### 8.1 Control parameters

Components with workplace control parameters:

Component	CAS number	Limit values				
		Eight hours		Short-term		
		Country	ppm	mg/m³	ppm	mg/m³
1,2,4 -Trimethylbenzene	95-63-6	UK	25	125		
		EU	20	100		
		France	20	100		
		Germany	20	100	40	200
		Netherlands		100		200
		Slovakia				
		Finland				
		Poland		100		170
		Hungary		100		
		Belgium	20	100		
		Spain	20	100		
		Romania	20	100		
		Lithuania				



# SAFETY DATA SHEET

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8.2 Exposure controls

General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Personal Protective Equipment: Wear suitable gloves and eye protection

**Respiratory protection:**No personal respiratory protective equipment normally required.

**Protection of hands:** Handle with protective gloves.

The glove material has to be impermeable and resistant to the product/

the substance/ the preparation.

Selection of the glove material on consideration of the penetration

times, rates of diffusion and the degradation.

Cont...

Material of gloves:

The selection of the suitable gloves does not only depend on the

material, but also on further marks of quality and varies from

manufacturer to manufacturer.

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer

of the protective gloves and has to be observed. The selected protective gloves have to satisfy the specifications of EU Directive

89/686/EEC and the standard EN374 derived from it.

**Eye protection:** Safety glasses with side shields conforming to EN166.

Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH(Us) or EN 166(EU).

**Body protection**: Protective work clothing. The type of protective clothing must be

selected according to the concentration and amount of the dangerous

substance at the specified workplace.

## **SECTION 9: Physical and Chemical Properties**

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid Form: Liquid

**Colour:** According to specification

Odour: Characteristic
Odour threshold: Not determined
pH-value: Not determined
Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

Flash point: 48 °C

Flammability (solid, gaseous):
Ignition temperature:
Not applicable.
Not determined
Not determined.

Self-igniting: Product is not self-igniting

**Danger of explosion:** Product is not an explosive. However, formation of explosive air /

vapour mixtures is possible.

**Explosion limits:** 

Lower: 1.1 Vol%.
Upper: 7.0 Vol %.
Vapour pressure: 3.0 hPa
Density at 20 °C: 0.9 g/cm³
Relative density Not determined



# SAFETY DATA SHEET

# **ProScint Gel+**

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Vapour density

Evaporation rate

Solubility in / Miscibility with water:

Particle size

Partition coefficient (n-octanol/water):

Not determined

Not applicable

Not determined

Viscosity:

**Dynamic:** Not determined **Kinematic:** Not determined

**9.2 Other information** No further relevant information available.

## **SECTION 10: Stability and Reactivity**

**10.1 Reactivity:**No data available

10.2 Chemical stability
 10.3 Possibility of hazardous reactions:
 No decomposition if used according to specifications.
 Reacts with strong acids and oxidising agents.

**10.4 Conditions to avoid**Toxic fumes may be released if heated above the decomposition point.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products**: Carbon monoxide, carbon dioxide, and sulphur and phosphorus oxides.

## **SECTION 11: Toxicological Information**

### 11.1 Information on toxicological effects

Acute toxicity: LC/LD50 Values relevant for classification:

Component	CAS - No	LD/LC50
1,2,4 - trimethylbenzene	95-63-6	ORAL 6000 mg/kg (rat)
Alcohols, C11-14-iso, ethoxylated	78330-21-9	ORAL 500 - 2.000 mg/kg (rat) DERMAL > 2.000 mg/kg (rat)
Phosphoric acid, 2-ethylhexyl ester	12645-31-7	ORAL 2 500 mg/kg (rat)

Skin corrosion / irritation:Causes skin irritation.Serious eye damage / eye irritation:Causes serious eye damage.Respiratory sensitisation:May cause respiratory irritation.

Germ cell mutagenicity:Based on available data, classification criteria not metCarcinogenicity:Based on available data, classification criteria not metReproductive toxicity:Based on available data, classification criteria not met

**Specific Target Organ Toxicity – Single Exposure:** May cause respiratory irritation May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure: Based on available data, classification criteria not met.

Aspiration hazard:

Additional information:

Based on available data, classification criteria not met

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological Information**

### 12.1 Toxicity

Aquatic toxicity:

Component	CAS - No	LC50 / 96 hours
1,2,4 - trimethylbenzene	95-63-6	Pimephales promelas (fathead minnow) 7.72 mg/l
Alcohols, C11-14-iso, ethoxylated	78330-21-9	EC50 (48 h, Daphnia magna (Water flea)) 7.07 mg/l

12.2 Persistence and degradability:
 12.3 Bio accumulative potential:
 12.4 Mobility in soil:
 12.5 Results of PBT and vPvB Assessment:
 No further relevant information available.
 No further relevant information available.
 No further relevant information available.

12.6 Other adverse effects

Additional ecological information:



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**General notes:** Toxic to aquatic life with long lasting effects.

Do not allow large quantities to reach ground water, water course or sewage system.

Danger to drinking water even if small quantities leak into the ground.

Poisonous for fish or plankton in water bodies.

# **SECTION 13: Disposal Considerations**

13.1 Waste treatment methods

**Product:** Must not be disposed together with household rubbish.

Do not allow product to reach sewage system.

**Uncleaned Packaging:** Disposal must be made according to official regulations.

**SECTION 14: Transport Information** 

14.1 UN-Number

ADR, IMDG, IATA UN1993

14.2 UN proper shipping name -

ADR 1993 FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzene),

**ENVIRONMENTALLY HAZARDOUS** 

IMDG / IATA FLAMMABLE, LIQUID, N.O.S. (1, 2, 4-trimethylbenzene), MARINE POLLUTANT

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 3 flammable liquids

Label

14.4 Packing group ADR, IMDG, IATA

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**14.5 Environmental hazards:** Product contains environmentally hazardous substances:

1,2,4-trimethylbenzene

Marine pollutant: Yes

**Special marking (ADR):** Symbol (fish and tree)

14.6 Special precautions for user Danger

Flammable liquid

Danger code (Kemler):30EMS Number:F-E,S-ESegregation groupsAlkalis

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport category 2
Tunnel restriction code E

IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml



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UN "Model Regulation": UN1993 FLAMMABLE LIQUID, N.O.S., 3, III, (1,2,4-TRIMETHYLBENZENE),

**ENVIRONMENTALLY HAZARDOUS** 

# **SECTION 15: Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **Section 16: Other Information**

#### Full text H- statements referred to under section 2 and 3

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

### **Precautionary statements**

P210

P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
	Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact
	lenses if present and easy to do - continue rinsing
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position

Keep away from heat/sparks/open flames/hot surfaces - No smoking

This information is 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. SDS Last updated 04/2023

### 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

REACH: Registration, Evaluation, Authorisation and Restrictions of Chemicals 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)

VOC: Volatile Organic Compounds

Acute Tox. 4: Acute toxicity, oral Hazard Category 4 Skin Corr. 1: Skin corrosion/irritation, Hazard Category 1 Skin Sens. 1: Skin sensitization, Hazard Category 1 Eye Damage 1: Serious eye damage, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4