

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 23.04.2018

Schein - Orthofix Sohlenlöser

Product code: r-11834

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

1.1. Product identifier

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

Use of the substance/mixture
, Thinner

14. Emergency telephone
number.

02232-945920

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Acute 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H402 Harmful to aquatic life.

Precautionary statements

P501 Dispose of contents/container to Entsorgung.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P235	Keep cool.
P391	Collect spillage.
P370+P378	In case of fire: Use Pulver, CO2 to extinguish.
P337+P313	If eye irritation persists: Get medical advice/attention.
P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P352	Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash Hands thoroughly after handling.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P243	Take action to prevent static discharges.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P240	Ground and bond container and receiving equipment.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Special labelling of certain mixtures

EUH018	In use may form flammable/explosive vapour-air mixture.
EUH066	Repeated exposure may cause skin dryness or cracking.

Additional advice on labelling

Labelling in accordance with the EEC directives:

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/Information on ingredients

3.2. Mixtures

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Hazardous components

CASNo	Chemical name	Quantity
	ECNo Index No IREACH No	
	GHS Classification	
141-78-6	Ethylacetat	25-35%
	205-500-4 1607-022-00-5	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, H225 H319 H336 EUH066	
78-93-3	Butanon (vgl. Ethylmethylketon)	25-35%
	201-159-0 1606-002-00-3	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, H225 H319 H336 EUH066	
67-64-1	Aceton	15-20%
	200-662-2 1606-001-00-8	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3, H225 H319 H336 EUH066	
110-82-7	cyclohexane	14-18%
	203-806-2 1601-017-00-1	
	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1, H225 H304 H315 H336 H400 H410	

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove from exposure, lie down.

After inhalation

Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician.

After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

After ingestion

Do NOT induce vomiting. Consult a physician. If a person vomits when lying on his back, place him in the recovery position.

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

Keine Information verfügbar

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical Carbon dioxide (CO₂) Extinguishing media - large fires Water spray mist or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. (CO₂)

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5.3. Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Additional information

Using the product may be accompanied by the formation of explosive/highly inflammable vapour-air-mixtures.

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

Remove all sources of ignition.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Provide exhaust ventilation close to floor level.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.

Further information on handling

Provide sufficient air exchange and/or exhaust in work rooms. Do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place. Keep in an area equipped with solvent resistant flooring.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CASNo	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA(8 h)	WEL
		1500	3620		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA(B h)	WEL
		300	899		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA(8 h)	WEL
		300	1050		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA(B h)	WEL
		400	-		STEL (15 min)	WEL

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Biological Monitoring Guidance Values (EH40)

CASNo	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

Additional advice on limit values

Maintain air concentrations below occupational exposure standards.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Avoid contact with the skin and the eyes. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

Eye/face protection

Tightly fitting safety goggles

Skin protection

impervious clothing

Respiratory protection

Ensure adequate ventilation, especially in confined areas. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear
Odour:	solvent
pH-Value:	not applicable
Changes in the physical state	
Initial boiling point and boiling range:	80 °C
Flash point:	- 8 °C
Lower explosion limits:	1,0vol. %
Upper explosion limits:	13,0 vol. %
Vapour pressure: (at 20 °C):	110 hPa
Density (at 20 °C):	0,83 g/cm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if used as directed.

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Risk of decomposition.:

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No decomposition if used as directed.
Keep away from heat and flame.

10.5. Incompatible materials

Strong acids and oxidizing agents, Alkali metals

10.6. Hazardous decomposition products

No dangerous reaction known under conditions of normal use. In case of tire hazardous decomposition products may be produced such as: Carbon oxides

Further information

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

Acute toxicity

Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis.

CASNo	Chemical name	Exposure route	Dose	Species	Source	Method
67-64-1	Aceton	oral	LD50 mg/kg 5800	Rat	RTECS	
		dermal	LD50 ml/kg 20000	Rabbit	UCLD	
		inhalation (4 h) vapour	LC50 76 mol	Rat		

Sensitising effects

No data is available on the product itself.

Carcinogenic/mutagenic/toxic effects for reproduction

No data is available on the product itself.

STOT-repeated exposure

Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis .

SECTION 12: Ecological information

12.1. Toxicity

The product is insoluble and floats on water.

CASNo	Chemical name	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-64-1	Aceton	Acute fish toxicity	LC50 mg/l 5540	96 h	Onchorhynchus mkiss		
		Acute crustacea toxicity	EC50 mg/l 6100	48 h	Daphnia magna		

12.2. Persistence and degradability

Readily biodegradable, according to appropriate OECD test.

12.3. Bioaccumulative potential

No data is available on the product itself.

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Partition coefficient n-octanol/water

CASNo	Chemical name	Log Pow
67-64-1	Aceton	-0,24

12.4. Mobility in soil

The product evaporates readily.

12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

12.6. Other adverse effects

Do not allow to escape into waters, wastewater or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Waste disposal number of waste from residues/unused products

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors; hazardous waste

Contaminated packaging

Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1993
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F 1
Limited quantity:	1 L
Hazard No:	33
Tunnel restriction code:	DE

Other applicable information (land transport)

Special Provision 640D

Inland waterways transport (ADN)

14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L

Marine transport (IMDG)

14.2. UN proper shipping name:	Flammable liquid
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Marine pollutant:	no
Limited quantity:	1 L
EmS:	F-E, SE

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Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: Flammable liquid N.OS.
Limitad quantity Passenger: 1 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory infonnation

15.1. Safety, health and environmental regulations/legislation specific forthe substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 57: cyclohexane

2004/42/EC (VOC): 100%

Additional information

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H41 O	Very toxic to aquatic life with long lasting effects.
EUH018	In use may form flammable/explosive vapour-air mixture.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respective/y from the last version of the sub-contractor's safety data sheet.)