

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Tradenname : REGULIN S
Substance name : Mixture of solvent and additives

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

Relevant identified uses : Rinse solution
Uses advised against : At present, we still do not Information on the use restrictions before. In the presence of the data they are in the Safety Data added.

1.3 Details of the supplier of the safety data sheet

Company : Bullnheimer & Co. GmbH & Co. KG
Im Tal 12
DE 86179 Augsburg
Fon : +49 (0)821 80850 0
Fax : +49 (0)821 80850 90
E-Email : info@bullnheimer.de
Responsible Person : Safety
Technical Information : Weekdays: Mo.–Th. 8:00-16:15, Fr. 08.00 – 13:00
+49 (0)821 80850

1.4 EMERGENCY TELEPHONE NUMBER

Fon : Weekdays: Mo.–Th. 8:00-16:15, Fr. 08.00 – 13:00
or the emergency number for Poison Control

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02



GHS07



GHS08



GHS09

Regulation (EC) No 1272/2008 [CLP/GHS]			
Hazard Class	Hazard Categories	Target organs	Notes
Flammable liquid	Category 2		H225
Aspiration hazard	Category 1		H304
Skin corrosion/irritation	Category 2		H315
Specific target organ toxicity - single exposure	Category 3		H336
Hazardous to the aquatic environment	Category 2		H411

Full text of H-phrases: see section 16.

Significant adverse effects

human health : See Section 11 for toxicological information.
 No further information available.

physical and chemical hazards : See Section 9 for physico-chemical information.
 No further information available.

Possible effects on the environment : See Section 12 for Ecological Information.
 No further information available.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms :



GHS02



GHS07



GHS08



GHS09

Signal word : **Danger**

Hazardous components for labeling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% n-hexane

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents / container in accordance with local / regional

2.3. Other hazards

No other information available.

3. Composition/information on ingredients

3.1. Substances

This product is a mixture

3.2. Description of the mixture

Hazardous ingredients	[weight] %	Classification according Regulation (EC) No 1272/2008 [CLP]	
		Hazard class / hazard category	hazards
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% of n-hexane INDEX-Nr. : CAS-Nr. : EG-Nr. : 921-024-6	<= 93	Flam. Liq. 2	H225
		Asp. Tox. 1	H304
		STOT SE 3	H336
		Aquatic Chronic 2	H411
		Skin Irrit. 2	H315

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n-Hexan		Flam. Liq. 2	H225
		Asp. Tox. 1	H304
INDEX-Nr. : 601-037-00-0		Repr. Lact. 2	H361f
CAS-Nr. : 110-54-3	<= 3	STOT RE 2	H373
EG-Nr. : 203-777-6		Skin Irrit. 2	H315
		STOT SE 3	H336
		Aquatic Chronic 2	H411

4. First aid measures

4.1. Description of first aid measures

- General informations : Move out of dangerous area. Remove contaminated clothing immediately.
- Following inhalation : Remove to fresh air. If symptoms persist, call a doctor. In case of applying recovery position and seek medical advice.
- Following skin contact : Immediately with soap and plenty of water. If symptoms persist, call a doctor.
- Following eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Following ingestion : Do not induce vomiting. Seek medical attention immediately. One vomits when lying on his back to bring the person into the recovery position.

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

- Symptoms : No further information available.
- Effects : No further information available.

5. Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing agents : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : Full water jet.

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighters : Vapors may be heavier than air and invisible, and along the ground. Vapors may form explosive mixtures with air. Backfire at a long distance is possible. In the event of fire the following hazardous decomposition products: Carbon dioxide (CO₂).

5.3. Advice for fire-fighters

- Special protective equipment for firefighters : In the event of fire, self-contained breathing apparatus. Wear proper protective equipment (full body suit).
- For more information : Closed containers exposed to fire with water spray. Heating will cause rise in pressure - danger of bursting. Collect contaminated firefighting water separately, do not empty into drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Personal protective equipment. Keep spectators away. Provide adequate ventilation. Keep away from heat and ignition sources. Gas / fumes / vapor / spray not breathe. Avoid contact with eyes and skin.

6.2. Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer. Avoid intrusion into the ground. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

- Methods and materials for containment and cleaning : Spillage with non-combustible absorbent material (eg sand, earth, vermiculite) and record and place in container for disposal according to local / national regulations (see section 13).
- For more information : Treat recovered material as prescribed in: Disposal.

6.4. Reference to other sections

Personal protective equipment see section 8

7. Precautions for safe handling

7.1. Protective measures

- Information for safe handling : Keep container tightly closed. Provide adequate ventilation. Personal protective equipment. Avoid contact with skin and eyes. Vapors and spray mists. Emergency eye wash stations should be available in the immediate vicinity.

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hygiene measures : Keep away from foodstuffs, beverages and feed. When using do not eat, drink or smoke. Wash hands before breaks and after work. Remove contaminated clothing immediately. Avoid contact with skin and eyes. Gas / fumes / vapor / spray not breathe.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers : Keep in an area equipped with solvent resistant flooring.

Precautions against fire and explosion protection : Keep away from sources of ignition - No smoking. Vapors may be heavier than air and invisible, and along the ground. Vapors may form explosive mixtures with air. Measures against electrostatic charge. Use only in a place with explosion-proof equipment.

For more information on storage Conditions : Keep tightly closed in a cool and dry. Keep out of direct sunlight. Protect from heat. Store in a well ventilated place.

Common storage : Keep away from foodstuffs, beverages and feed.

Storage class (LGK) : 3 Flammable liquids

7.3. Specific end uses

specific use : No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the limits:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cy			CAS-Nr.	
			EG-Nr.:	921-024-6
TRGS 900	200 ppm		1500 mg/m3	
AGW(DE)	2 (II);AGS			
n-Hexan			CAS-Nr.	110-54-3
			EG-Nr.:	203-777-6
TRGS 900	50 ppm		180 mg/m3	
AGW(DE)	8(II);DFG, EU, Y			

8.2 Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection

Reference : Gas filter unit according to EN 14387 type A (organic gas / vapor, boiling point > 65 ° C) - characteristic brown

Hand protection

Reference : Suitable 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 degradation. Gloves should be replaced at first signs of wear.

Material : butyl rubber

Gloves : >= 1 h

Glove thickness : 0,5 mm

Eye protection

Reference : Tightly sealed goggles

Skin and body protection

Reference : solvent-resistant protective clothing

Controls and monitoring of environmental exposure

General information : Do not flush into surface water or sanitary sewer. Avoid intrusion into the ground. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

appearance

Physical state : liquid
Colour : colorless
Odour : typical art

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Safety data

pH	: not applicable
Melting point/range	: -95 °C
boiling point/range	: 69 - 113 °C
Flash point	: -15,66 °C
Explosion hazard	: The product is not explosive, but formation of explosive vapor / air mixtures is possible.
Lower Explosive Limit	: 0,8 %(V)
Upper Explosive Limit	: 8,9 %(V)
Ignition temperature	: 200 C°
Oxidizing properties	: No data available
Vapor pressure	: 8500 hPa / 20°C
Density	: 0,71 g/cm ³
Water solubility	: insoluble
Partition coefficient n-Octanol/Water	: 3,4 - 5,2 log POW
Viscosity	: Kinematically 0.61 mm ² / s
Solvent content	: 100%

9.2 Other safety information

No further information available.

10. Stability and reactivity

10.1 Reactivity

Reference : No further information available.

10.2 Chemical stability

Reference : No decomposition if stored and applied. No further information available.

10.3 Possibility of hazardous reactions

Dangerous reactions : No further information available.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks, electrostatic charge.

Thermal decomposition : No further information available.
 Remark : Currently we have no information on this from our suppliers.

10.5 Incompatible materials

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Materials to avoid : Strong oxidizers

10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire the following can be released: carbon oxides, nitrogen oxides, acid vapors.

11. Toxicological information**11.1 Information on toxicological effects**

There were no toxicological findings to the mixture.

Acute toxicity

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclenes, <5% of n-hexane		CAS-Nr. EG-Nr.: 921-024-6	
	Orally	Inhale	Skin
Method	LD50	LC50	LD50
Concentration	5.000 mg/kg	2.000 mg/kg	2.000 mg/kg
Species	Rat	Rat	Rabbit
Exposure time		4 h	
n-Hexan		CAS-Nr. EG-Nr.: 110-54-3 203-777-6	
	Orally	Inhale	Skin
Method	LD50	LC50	
Concentration	25.000 mg/kg	169 mg/kg	
Species	Rat	Rat	
Exposure time		4 h	

Irritation : Causes skin irritation and severe eye irritation. (Conventional method)

Corrosivity : Based on the available data, the classification criteria are not met. (Conventional method)

Sensitization : Based on the available data, the classification criteria are not met. (Conventional method)

Repeated dose toxicity : not tested

Carcinogenicity : not tested

Mutagenicity : not tested

Reproductive toxicity : not tested

For more information : The toxicological classification of the mixture based on the results of the calculation method (conventional method) of the Dangerous Preparations Directive 1999/45/EC. According to the manufacturer's experience can not be expected for the labeling other hazards.

12. Ecological information

12.1 Toxicity

Toxicity to fish	: LC50 fish (96h) > 57,80 mg/L
Aquatic invertebrates	: EC50 crustaceans (48h) > 100,00 mg/L
Aquatic plants	: IC50 seaweed (72h) > 100,00 mg/L

12.2 Persistence and degradability

readily biodegradable

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in Organisms are not expected.

12.4 Mobility in soil

No further relevant information.

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13. Disposal considerations

13.1 Waste treatment methods

Dispose of in compliance with the AbfKrWG and local regulations for physical chemical pretreatment.

Recommendation : Exact waste code with the disposer.

Waste code according to the Waste Catalogue Ordinance (AVV) : The waste code number, according to the European Waste Catalogue (EWC) is dependent on waste producers and can therefore be different for a product. The waste key number must be determined, therefore, separately from each waste producer.

Contaminated packaging : 1501 99 D1 halogenated compounds

Additional information : is a recovery in the sense of AbfKrWG not possible, dispose of in compliance with local regulations.

14. Transport information

14.1 UN-Number

1993

14.2 UN-Proper shipping name



Class 3



Class 9.

ADR / RID : FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclics, <5% n-Hexane), MARINE POLLUTANT

IMDG-Code / : FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-Alkanes, ICAO-TI / Isoalkanes, Cyclics, <5% n-Hexane), MARINE POLLUTANT
IATA-DGR

14.3 Hazard class (es) transport

ADR / RID - Class : 3
Hazard label(s) : 3
Classification Code : F1
Hazard identification : 33
Tunnel restriction code : 2 (D/E)

IMDG / ICAO-TI / IATA-DGR - Klasse : 3
Hazard label(s) : 3
EmS - Number : F-E, S-D

14.4 Packing group

ADR / RID : II
IMDG / ICAO-TI / IATA-DGR : II

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR : YES
Labelling according to 5.2.1.8 RID : YES
Labelling according to 5.2.1.6.3 IMDG : YES
Classification as environmentally hazardous : YES according to 2.9.3 IMDG
Marked "P" in accordance with 2.10 IMDG : no

14.6 Special precautions for user

Remark : inapplicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : not applicable

15. Regulatory information

15.1 Regulations on safety, health and environmental regulations / legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1005/2009 (substances that deplete the ozone layer):
inapplicable

Regulation (EC) No 850/2004 (Persistent Organic Pollutants):
inapplicable

Regulation (EC) No 689/2008 (export and import of dangerous chemicals):
inapplicable

Regulation (EC) No 648/2004 (detergents):
The product meets the criteria laid down in Regulation (EC) No 648/2004.

Restrictions under Title VIII of Regulation (EC) 1907/2006:
no

National regulations (Germany)

Water hazard class
Class 1 according VwVwS, Annex 4

Reference to Technical Rules for Hazardous Substances (TRGS)
Protection measures in accordance with TRGS 500 compliance
Storage class according to TRGS 510: 3 (Flammable liquids)

15.2 Chemical Safety Assessment

Currently we have no information on this from our suppliers.

16. Other information

Literature and data sources

Regulations

Preparations Directive (1999/45/EC), as last amended by Regulation (EC) No 1907/2006.
Substances Directive (67/548/EEC) as last amended by Directive 2009/2/EC.
REACH Regulation (EC) No 1907/2006 as last amended by Regulation (EU) No 253/2011.
Regulation (EC) No 1272/2008, as last amended by Regulation (EC) No 790/2009.

Internet

<http://www.baua.de>

<http://www.arbeitssicherheit.de>

<http://www.dguv.de/ifa/de/gestis/stoffdb>

<http://logkow.cisti.nrc.ca>

Full text of risk phrases in section 2 and 3

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	Can cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Further information

The information contained herein is based on the state of our knowledge at the time of revision and serve to our products to describe in terms of safety arrangements. they are guarantee for any specific product features and no product or product specification and shall not contractual relationship. The safety data are not transferable to other products. As far as a guidance for safe named product with other materials mixed, blended or processed, or processed, or worked on, the information in this safety data sheet and is not to explicitly gives something else, are not transferred to the new material.