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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: ACTIGRIP

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

Adhesives

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: A. ALGEO LTD.

Address: Sheridan House, Bridge Industrial Estate, Speke Hall Road

City: Liverpool Post Code: L24 9HB

Telephone: +44 (0)151 448 1228
Fax: +44 (0)151 448 1008
E-mail: sales@algeos.com
Web: www.algeos.com

1.4 Emergency telephone number: +44 (0)151 448 1228 (Only available during office hours; Monday-Friday; 09:00-17:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Eye Irrit. 2: Causes serious eye irritation.

Flam. Liq. 2: Highly flammable liquid and vapour.

Repr. 2: Suspected of damaging fertility or the unborn child.

Skin Irrit. 2: Causes skin irritation.

STOT RE 2: May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: May cause drowsiness or dizziness.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:









Signal Word:

Danger

H statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn

H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

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P statements:

P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: Use foam or dry powder for extinction.

EUH statements:

EUH208 Contains Methylols. May produce an allergic reaction. EUH208 Contains Rosin. May produce an allergic reaction.

Restricted to professional users.

Contains:

hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))

toluene

acetone,propan-2-one,propanone

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

				(*)Classification - Regulation (EC) No 1272/2008	
Identifiers	Name	Concentrate	Classification	specific concentration limit	
Index No: 601-007- 00-7 EC No: 931-254-9 Registration No: 01- 2119484651-34-0000	[1] hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))	25 - 49.99 %	Aquatic Chronic 2, H411 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - Skin Irrit. 2, H315 - STOT SE 3, H336	-	
Index No: 601-021- 00-3 CAS No: 108-88-3 EC No: 203-625-9 Registration No: 01- 2119471310-51-0010	[1] toluene	20 - 49.99 %	Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - Repr. 2, H361d *** - Skin Irrit. 2, H315 - STOT RE 2 *, H373 ** - STOT SE 3, H336	-	
Index No: 606-001- 00-8 CAS No: 67-64-1 EC No: 200-662-2 Registration No: 01- 2119471330-49-0016	[1] acetone,propan-2-one,propanone	10 - 19.99 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-	

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CAS No: 1309-48-4 EC No: 215-171-9	[1] magnesium oxide	0 - 2.49 %	-	-
Index No: 650-015- 00-7 CAS No: 8050-09-7 EC No: 232-475-7 Registration No: 01- 2119480418-32-XXXX	[1] Rosin	0.1 - 0.99 %	Skin Sens. 1, H317	-
	Methylols	0.1 - 0.99 %	Skin Sens. 1, H317	-
Index No: 605-001- 00-5 CAS No: 50-00-0 EC No: 200-001-8 Registration No: 01- 2119488953-20-XXXX	[1] formaldehyde	0 - 0.099 %	Acute Tox. 3 *, H311 - Acute Tox. 3 *, H331 - Acute Tox. 3 *, H301 - Carc. 1B, H350 - Muta. 2, H341 - Skin Corr. 1B, H314 - Skin Sens. 1, H317	Skin Irrit. 2, H315: 5 % ≤ C < 25 %

^(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

Eve contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Skin contact

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Long-term chronic exposure may result in injury to certain organs or tissues.

^{*, **, ***} See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

^[1] Substance with a Community workplace exposure limit (see section 8.1).

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

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7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use antistatic footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quant the applic	
Code	Description	Lower-tier requirements	Upper-tier requirements
P5b	FLAMMABLE LIQUIDS	50	200
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

See technical data sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
hexane, mixture of isomers (containing		United	Eight hours	500	1790
< 5 % n-hexane (203-777-6))		Kingdom [1]	Short term	1000	3580
		European	Eight hours	50 (skin)	192 (skin)
		Union [2]	Short term	100 (skin)	384 (skin)
		United	Eight hours	50	191
		Kingdom [1]	Short term	100	384
	108-88-3	United States	Eight hours	10	
		[3] (Cal/OSHA)	Short term	150 (Ceiling) 500	
		United States	Eight hours	100	
Lateral		[4] (NIOSH)	Short term	150	
toluene			Eight hours	200	
		United States [5] (OSHA)	Short term	300 Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift: 500 [10 min]	
acetone,propan-2-one,propanone	67-64-1	European	Eight hours	500	1210

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		Union [2]	Short term		
		United	Eight hours	500	1210
		Kingdom [1]	Short term	1500	3620
		United States	Eight hours	500	
		[3] (Cal/OSHA)	Short term	750 (Ceiling) 3000	
		United States	Eight hours	250	
		[4] (NIOSH)	Short term		
		United States	Eight hours	1000	2400
		[5] (OSHA)	Short term		
magnesium oxide	1309-48-4	United Kingdom [1]	Eight hours		10 (inhalable dust) 4 (fume and respirable dust)
			Short term		
Rosin	8050-09-7	United	Eight hours		0,05
NO3III	0030-09-7	Kingdom [1]	Short term		0,15
formaldehyde	50-00-0	United	Eight hours	2	2,5
Tormaluenyue	30-00-0	Kingdom [1]	Short term	2	2,5

^[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.

The product does NOT contain substances with Biological Limit Values. Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
	DNEL	Inhalation, Long-term, Local effects	192
	(Workers)	-	(mg/m³)
	DNEL (General	Inhalation, Long-term, Local effects	56,5
	population)		(mg/m³)
	DNEL	Inhalation, Long-term, Systemic effects	192
	(Workers)		(mg/m³)
	DNEL (General	Inhalation, Long-term, Systemic effects	56,5
	population)		(mg/m³)
	DNEL	Inhalation, Acute, Systemic effects	384
	(Workers)		(mg/m³)
	DNEL (General	Inhalation, Acute, Systemic effects	226
toluene	population)		(mg/m³)
CAS No: 108-88-3	DNEL	Inhalation, Acute, Local effects	384
EC No: 203-625-9	(Workers)		(mg/m³)
	DNEL (General	Inhalation, Acute, Local effects	226
	population)		(mg/m³)
	DNEL	Dermal, Long-term, Systemic effects	384
	(Workers)		(mg/kg
			bw/day)
	DNEL (General	Dermal, Long-term, Systemic effects	226
	population)		(mg/kg
			bw/day)
	DNEL (General	Oral, Long-term, Systemic effects	8,13
	population)		(mg/kg
			bw/day)
	DNEL	Inhalation, Long-term, Systemic effects	1210
acetone,propan-2-one,propanone	(Workers)		(mg/m³)
CAS No: 67-64-1	DNEL (General	Inhalation, Long-term, Systemic effects	200
EC No: 200-662-2	population)		(mg/m³)
	DNEL	Inhalation, Acute, Local effects	2420
	(Workers)		(mg/m³)

^[2] According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

^[3] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

^[4] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

^[5] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

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	DNEL (Workers)	Dermal, Long-term, Systemic effects	186 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	62 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	62 (mg/kg bw/day)
Rosin CAS No: 8050-09-7 EC No: 232-475-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	176 (mg/m³)
formaldehyde CAS No: 50-00-0	DNEL (Workers)	Inhalation, Long-term, Local effects	0,5 (mg/m³)
EC No: 200-001-8	DNEL (Workers)	Inhalation, Long-term, Systemic effects	9 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
	aqua (freshwater)	0,68 (mg/L)
	aqua (marine water)	0,68 (mg/L)
toluene	aqua (intermittent releases)	0,68 (mg/L)
CAS No: 108-88-3	PNEC STP	13,61 (mg/L)
EC No: 203-625-9	sediment (freshwater)	16,39 (mg/kg
EC NO: 203-623-9		sediment dw)
	sediment (marine water)	16,39 (mg/kg
		sediment dw)
	aqua (freshwater)	10,6 (mg/L)
	aqua (marine water)	1,06 (mg/L)
	aqua (intermittent releases)	21 (mg/L)
acetano nyanan 2 ana nyananana	PNEC STP	100 (mg/L)
acetone,propan-2-one,propanone CAS No: 67-64-1	sediment (freshwater)	30,04 (mg/kg
EC No: 200-662-2		sediment dw)
	sediment (marine water)	3,04 (mg/kg
		sediment dw)
	PNEC soil	29,5 (mg/kg
		soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Adhesives
Breathing protecti	ion:
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach
Observations:	the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.
Filter Type needed:	A2
Hand protection:	

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PPE: Protective gloves against chemicals.

Characteristics: «CE» marking, category III.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Maintenance:

Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or

adhesives.

Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Observations:

Always use with clean, dry hands.

Breakthrough time Material thickness Material: PVC (polyvinyl chloride) > 480 0,35 (min.): (mm):

Eye protection:

Protective goggles with built-in frame. «CE» marking, category II. Eye protector with built-in frame for protection against

Characteristics:

splashing liquid, dust, smoke, fog and vapour. CEN standards: EN 165, EN 166, EN 167, EN 168

Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should Maintenance:

be disinfected periodically following the manufacturer's instructions.

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, Observations:

scraping etc.

Skin protection: Anti-static protective clothing. PPF:

«CE» marking, category II. Protective clothing should not be too tight or loose in Characteristics:

order not to obstruct the user's movements.

CEN standards: EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5

In order to guarantee uniform protection, follow the washing and maintenance instructions provided by Maintenance:

the manufacturer.

The protective clothing should offer a level of comfort in line with the level of protection provided in

terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level

of activity and the expected time of use.

PPE: Anti-static safety footwear. Characteristics: «CE» marking, category II.

EN ISO 13287, EN ISO 20344, EN ISO 20346 CEN standards:

Maintenance: The footwear should be checked regularly

The level of comfort during use and acceptability are factors that are assessed very differently depending Observations:

on the user. Therefore, it is advisable to try on different footwear models and, if possible, different

widths.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Viscous liquid wiht characteristic odour

Colour: N.A./N.A. Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH:No procede

Observations:

Melting point: N.A./N.A. Boiling Point: 55-110 °C Flash point: 21 °C Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: 1.1 Upper Explosive Limit: 13 Vapour pressure: 108,224 Vapour density: 3.1 Relative density: 0.8 aprox. Solubility: N.A./N.A. Liposolubility: N.A./N.A. Hydrosolubility: No miscible

Partition coefficient (n-octanol/water): N.A./N.A.

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Auto-ignition temperature: 480°C Decomposition temperature: N.A./N.A.

Viscosity: 2000-4000

Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- COx (carbon oxides).
- Organic compounds.
- Aromatics compounds.

SECTION 11: TOXICOLOGICAL INFORMATION.

1-component preparations: during curing, formaldehyde is released. This can cause irreversible effects, it is a mucous membrane irritant, and it can cause skin sensitivity.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

IRRITANT PREPARATION. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

Toxicological information about the substances present in the composition.

Name		Acute toxicity				
Name	Туре	Test	Kind	Value		
teliane	Oral	LD50	Rat	636 mg/kg bw [1]		
toluene		[1] Neurot	oxicology. Vol. 3	2, Pg. 567, 1981		
	Dermal	LD50	Rabbit	12200 mg/kg bw [1]		

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			[1] Americ Pg. 470, 1		al Hygiene Association Journal. Vol. 30,
			LC50	Rat	49 mg/l/4 h [1]
CAS No: 108-88-3	EC No: 203-625-9	Inhalation			rofessional'nye Zabolevaniya. Labor ional Diseases. Vol. 32(10), Pg. 23,
			LD50	Rat	5800 mg/kg bw [1]
acetone,propan-2-one	e,propanone	Oral	[1] Journa Pg. 609, 1		logy and Environmental Health. Vol. 15,
		Dermal			
CAS No: 67-64-1	EC No: 200-662-2	Inhalation			

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;

Based on available data, the classification criteria are not met.

f) carcinogenicity;

Based on available data, the classification criteria are not met.

g) reproductive toxicity;

Product classified:

Reproductive toxicant, Category 2: Suspected of damaging fertility or the unborn child.

h) STOT-single exposure;

Product classified:

Specific target organ toxicity following a single exposure, Category 3:

i) STOT-repeated exposure;

Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
Name	Туре	Test	Kind	Value
toluene	Fish	LC50	Fish	31,7 mg/l (96 h) [1]

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	7	1		
		[1] Geiger, D.L., L.T. Brooke, and D.J. Call 1990. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Volume 5. Ctr.for Lake Superior Environ.Stud., Univ.of Wisconsin-Superior, Superior, WI :332 p		
		LC50 Crustacean 92 mg/l (48 h) [1] EC50 Crustacean 9,24 mg/l (48 h) [2]		
	Aquatic invertebrates	[1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p [2] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p Brooke, L.T., D.J. Call, S.H. Poirier, and S.L. Harting 1986. Toxicity of Toluene to Several Freshwater Species. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI (Report to Battelle Memorial Research Institute, Columbus, OH) :10 p		
		EC50 Algae 12,5 mg/l (72 h) [1]		
CAS No: 108-88-3 EC No: 203-625-9	Aquatic plants	[1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L.Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. Ecotoxicol.Environ.Saf. 16(2):158-169		
		Fish Fish Salmo gairdneri 8300 mg/l (96 h) [1] LC50 (new name: Oncorhynchus mykiss) Poecilia reticulata 8300 mg/l (96 h) [2] 8120 mg/l (96 h) [2] 5540 mg/l (96 h) [3] 9600 mg/l (48 h) [4] 9600 mg/l (48 h)		
acetone,propan-2-one,propanone	Fish	[1] Cairns, J.Jr., and A. Scheier 1968. A Comparison of the Toxicity of Some Common Industrial Waste Components Tested Individually and Combined. Prog.Fish-Cult. 30(1):3-8 [2] 95% CL: 7530-8760 mg/l [3] Handbook of Acute Toxicity of Chemicals to Fish and Aquatic Invertebrates [4] Reinhaltung des Wassers, Erich Schmidt Verlag, Berlin, 58-68 (1979). cited in: Sloof, W. et al., Aquat. Toxicol. 4, 113-128 (1983)		
	Aquatic invertebrates	LC50 Crustacean 8450 mg/l (48 h) [1] EC50 Crustacean 18500 mg/l (48 h) [2] LC50 Daphnia pulex 8800 mg/l (48 h) [3] LC50 Artemia salina 2100 mg/l (24 h) [4]		

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			[1] Cowgill, U.M., and D.P. Milazzo 1991. The Sensitivity of Ceriodaphnia dubia and Daphnia magna to Seven Chemicals Utilizing the Three-Brood Test. Arch.Environ.Contam.Toxicol. 20(2):211-217. Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. Hydrobiologia 59(2):135-140 (Used Reference 2018) [2] Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J.Water Pollut.Control Fed. 52(8):2117-2130. Barera, Y., and W.J. Adams 1983. Resolving Some Practical Questions About Daphnia Acute Toxicity Tests. In: W.E.Bishop (Ed.), Aquatic Toxicology and Hazard Assessment, 6th Symposium, ASTM STP 802, Philadelphia, PA:509-518 [3] Study conducted according to national standard method
			[3] Study conducted according to national standard method without detailed documentation. Analytical monitoring of test substance concentration was not performed. Based on the results of the acute fish toxicity testing, the moderate volatility of acetone from aqueous solution seems to be of little importance. [4] Sufficiently described study, meets basic scientific principles. Although the test duration (24 h instead 48 h) is not in accordance to nowadays standards the study at least give a hint on the acute toxicity of acetone to a marine species. Analytical monitoring of test substance concentration was not performed. Based on the results of the acute fish toxicity testing, the moderate volatility of acetone from aqueous solution seems to be of little importance. EC50 TT Toxic Threshold Concentra tion Concentra tion Concentra tion Concentra tion Concentra tion Concentra tion Concentra Cylindrica Cylindrica Cylindrica Threshold Concentra Cylindrica Cylindrica Cylindrica Cylindrica Cylindrica Cylindrica Concentra Cylindrica Cyl
CAS No: 67-64-1	EC No: 200-662-2	Aquatic plants	[1] Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl.Tech.Inf.Serv., Springfield, VA:25 p. (DUT) (ENG ABS) (NTIS/PB83-200386) [2] Grenzwerte der Schadwirkung wassergefährdender Stoffe gegen Blaualgen (Microcystis aeroginosa) und Grünalgen (Scenedesmus quadricauda) im Zellvermehrungshemmtest [3] Toxic effects of organic solvents on the growth of bluegreen algae, Bull. Environ. Contam. Toxicol. 38:1012-1019

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level

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toluene		2.72			
CAS No: 108-88-3	EC No: 203-625-9	2,/3	-	-	

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading Air: Transport by plane: ICAO/IATA. Transport document: Airway bill.

14.1 UN number.

UN No: UN1133

14.2 UN proper shipping name.

Description:

ADR: UN 1133, ADHESIVES, 3, PG II, (D/E)

UN 1133, ADHESIVES (HEXANE, MIXTURE OF ISOMERS (CONTAINING < 5 % N-HEXANE (203-777-6))), 3, PG II IMDG:

(21°C), MARINE POLLUTANT

ICAO/IATA: UN 1133, ADHESIVES, 3, PG II

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: II

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14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

14.6 Special precautions for user.

Labels: 3



Hazard number: 33 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 1 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-D Proceed in accordance with point 6.

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

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC) VOC content (p/p): 76,161 % VOC content: 609,29 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5b,E2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
<u> </u>	
28. Substances which appear in Part 3 of	Shall not be placed on the market, or used,
Annex VI to Regulation (EC) No 1272/2008	- as substances,
classified as carcinogen category 1A or 1B	- as constituents of other substances, or,
(Table 3.1) or carcinogen category 1 or 2	- in mixtures,
(Table 3.2) and listed as follows:	for supply to the general public when the individual concentration in the
- Carcinogen category 1A (Table	substance or mixture is equal to or greater than:
3.1)/carcinogen category 1 (Table 3.2) listed	- either the relevant specific concentration limit specified in Part 3 of Annex VI
in Appendix 1	to Regulation (EC) No 1272/2008, or,
- Carcinogen category 1B (Table	- the relevant concentration specified in Directive 1999/45/EC where no

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3.1)/carcinogen category 2 (Table 3.2) listed in Appendix 2	specific concentration limit is set out in Part 3 of Annex VI to Regulation (EC) No 1272/2008. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows: 'Restricted to professional users'. 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: - motor fuels which are covered by Directive 98/70/EC, - mineral oil products intended for use as fuel in mobile or fixed combustion plants, - fuels sold in closed systems (e.g. liquid gas bottles); (d) artists' paints covered by Directive 1999/45/EC; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.
48. Toluene CAS No 108-88-3 EC No 203-625-9	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than 0,1 % by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

Kind of pollutant for the water (Germany): WGK 2: Hazardous for the water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 3: Acute toxicity (Dermal), Category 3
Acute Tox. 3: Acute toxicity (Inhalation), Category 3
Acute Tox. 3: Acute toxicity (Oral), Category 3

Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2 $\,$

Asp. Tox. 1 : Aspiration toxicity, Category 1 Carc. 1B : Carcinogen, Category 1B Eye Irrit. 2 : Eye irritation, Category 2 Flam. Liq. 2 : Flammable liquid, Category 2

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Muta. 2: Mutagen, Category 2

Repr. 2 : Reproductive toxicant, Category 2 Skin Corr. 1B : Skin Corrosive, Category 1B Skin Irrit. 2 : Skin irritant, Category 2 Skin Sens. 1 : Skin sensitiser, Category 1

STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2 STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Sections changed compared with the previous version:

1,2,3,8,9,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
	hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6))	
108-88-3	toluene	Registered
67-64-1	acetone,propan-2-one,propanone	Registered
1309-48-4	magnesium oxide	Registered
8050-09-7	Rosin	Registered
	Methylols	
50-00-0	formaldehyde	Registered

Risk classification system NFPA 704:



Health hazard: 2 (Hazardous)

Flammability: 4 (Below 73°F)

Reactivity: 0 (Stable)

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AwSV: Facility Regulations for handling substances that are hazardous for the water.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water. NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are

not expected in the environmental compartment.

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RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

WGK: Water hazard classes.

Key literature references and sources for data: http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.