

Safety Data Sheet

according to UK REACH Regulation

SAMBOL**TipClean**

Revision date: 14.11.2022

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

TipClean

Product code:0202
1004-4
5502**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Solvents/Thinner

1.3. Details of the supplier of the safety data sheet

Company name:	Sambol-IBS GmbH	
Street:	Walter-Schellenberg-Str. 6	
Place:	D-78315 Radolfzell	
Telephone:	+49-(0)7732 5 65 69	Telefax: +49-(0)7732 4627
e-mail:	kontakt@sambol.de	
Contact person:	Werner Sambol	Telephone: +49-(0)7732 5 65 69
1.4. Emergency telephone number:	+49 (0)7732 5 65 69 (Office hours: Monday - Friday: 9.00 - 12.00 am & 1.00 - 4.00 pm)	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**Flam. Liq. 3; H226
Acute Tox. 4; H302
Acute Tox. 4; H332
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**1-methoxy-2-propanol; monopropylene glycol methyl ether
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve
benzyl alcohol**Signal word:** Warning**Pictograms:****Hazard statements**

H226	Flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378	In case of fire: Use Carbon dioxide (CO ₂), Extinguishing powder, Water spray jet to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in an approved waste disposal facility

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			50 - 80 %
	203-539-1	603-064-00-3		
	Flam. Liq. 3, STOT SE 3; H226 H336			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			20 - < 30 %
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H331 H302 H315 H319			
100-51-6	benzyl alcohol			20 - < 30 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4; H332 H302			
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol			1 - < 5 %
	204-626-7	603-016-00-1	01-2119473975-21	
	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3; H226 H319 H335			
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone			< 0,3 %
	212-828-1	606-021-00-7		
	Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H360D H315 H319 H335			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
107-98-2	203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether dermal: LD50 = 13000 mg/kg; oral: LD50 = 5660 mg/kg	50 - 80 %
111-76-2	203-905-0	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve inhalation: LC50 = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); oral: ATE 1200 mg/kg	20 - < 30 %
100-51-6	202-859-9	benzyl alcohol inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 mg/kg	20 - < 30 %
123-42-2	204-626-7	4-hydroxy-4-methylpentan-2-one; diacetone alcohol dermal: LD50 = 13630 mg/kg; oral: LD50 = 3002 mg/kg Eye Irrit. 2; H319: >= 10 - 100	1 - < 5 %
872-50-4	212-828-1	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone dermal: LD50 = 8000 mg/kg; oral: LD50 = 4150 mg/kg STOT SE 3; H335: >= 10 - 100	< 0,3 %

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

No information available.

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

Treat symptomatically. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO₂), Extinguishing powder.
In case of major fire and large quantities: Water spray jet; alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.
In case of fire may be liberated: Nitrogen oxides (NO_x). Carbon monoxide. Carbon dioxide (CO₂). Pyrolysis products, toxic.

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5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment. Evacuate area.

For emergency responders

Use personal protection equipment. Full protection suit.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Stop leak if safe to do so. Cover drains.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Ventilate affected area.

Use non-sparking tools.

Other information

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Provide room air exhaust at ground level. (Vapours are heavier than air.) Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. Wash hands and face before breaks and after work and take a shower if necessary. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

Hints on joint storage

Do not store together with: Acids, alkalines, Oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep away from heat. Protect from direct sunlight.

7.3. Specific end use(s)

Solvents/Thinner

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
872-50-4	1-Methyl-2-pyrrolidone	10	40		TWA (8 h)	WEL
		20	80		STEL (15 min)	WEL
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
123-42-2	4-Hydroxy-4-methyl-pentan-2-one	50	241		TWA (8 h)	WEL
		75	362		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
Consumer DNEL, acute		inhalation	local	123 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, acute		inhalation	systemic	663 mg/m ³
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol			
Consumer DNEL, long-term		oral	systemic	3,4 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	9,4 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,4 mg/kg bw/day
Worker DNEL, acute		inhalation	local	240 mg/m ³
Consumer DNEL, acute		inhalation	local	120 mg/m ³
Worker DNEL, long-term		inhalation	local	66,4 mg/m ³
Consumer DNEL, long-term		inhalation	local	11,8 mg/m ³
Worker DNEL, long-term		inhalation	systemic	66,4 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	11,8 mg/m ³
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone			
Worker DNEL, long-term		inhalation	local	40 mg/m ³

PNEC values

CAS No	Substance	Value
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	
Freshwater		8,8 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		2,8 mg/kg
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol	
Freshwater		2 mg/l
Marine water		0,2 mg/l
Marine sediment		0,91 mg/kg
Micro-organisms in sewage treatment plants (STP)		82 mg/l
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	
Freshwater		0,25 mg/l
Freshwater (intermittent releases)		5 mg/l
Marine water		0,025 mg/l
Freshwater sediment		0,805 mg/kg
Marine sediment		0,0805 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,138 mg/kg

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8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Suitable eye protection: (EN 166) Eye glasses with side protection, goggles.

Hand protection

Wear suitable gloves tested to EN374.

Suitable material: PVA (Polyvinyl alcohol), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), CR (polychloroprenes, Chloroprene rubber).

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing. Apron (EN 14605+A1), Boots (EN ISO 20345), Chemical protection clothing (DIN EN 13688).

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

short-term: Full-/half-/quarter-face masks (EN 136/140), Combination filtering device Particle filter device (EN 143): A1

long-term: Container device with compressed air (EN 137)

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	colourless	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		117 - 205 °C
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		37 °C
Auto-ignition temperature:		240 °C
Decomposition temperature:		not determined
pH-Value:		not applicable

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Viscosity / kinematic:	not determined
Water solubility:	completely miscible
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	0,814 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2. Other information**Explosive properties**

The product is not: Explosive. Vapours can form explosive mixtures with air.

Other safety characteristics

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect from sunlight.

10.5. Incompatible materials

Acids, alkalines, Oxidizing agents..

10.6. Hazardous decomposition products

In case of fire may be liberated: Nitrogen oxides (NO_x). Carbon monoxide. Carbon dioxide (CO₂). Pyrolysis products, toxic.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if swallowed.

Harmful if inhaled.

ATE_{mix} calculated

ATE (oral) 1666,7 mg/kg; ATE (inhalation vapour) 10,19 mg/l; ATE (inhalation dust/mist) 1,630 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 5660 mg/kg	Rat	Manufacturer	
	dermal	LD50 13000 mg/kg	Rabbit	Manufacturer	
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve				
	oral	ATE 1200 mg/kg			
	inhalation (4 h) vapour	LC50 3 mg/l		Substance with harmonized classification and labelling according to Regulation (EC) No. 1272/2008, Annex VI.	
	inhalation dust/mist	ATE 0,5 mg/l			
100-51-6	benzyl alcohol				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol				
	oral	LD50 3002 mg/kg	Rat	Manufacturer	
	dermal	LD50 13630 mg/kg	Rabbit	Manufacturer	
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone				
	oral	LD50 4150 mg/kg	Rat	Manufacturer	
	dermal	LD50 8000 mg/kg	Rabbit	Manufacturer	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (1-methoxy-2-propanol; monopropylene glycol methyl ether)

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

11.2. Information on other hazards**Endocrine disrupting properties**

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This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.
The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve					
	Acute fish toxicity	LC50 mg/l	1490	96 h	Lepomis macrochirus	Manufacturer DIN 38412
	Acute algae toxicity	ErC50 mg/l	1840	72 h	Pseudokirchneriella subcapitata	Manufacturer OECD 201
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia magna	Manufacturer OECD 202
	Fish toxicity	NOEC mg/l	> 100	21 d	Danio rerio (zebrafish)	Manufacturer
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes (Ricefish)	Manufacturer
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Manufacturer
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna (Big water flea)	Manufacturer
	Algae toxicity	NOEC mg/l	1000	3 d	Pseudokirchneriella subcapitata	Manufacturer
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone					
	Acute fish toxicity	LC50 mg/l	> 500	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer
	Acute algae toxicity	ErC50 mg/l	> 500	72 h	Scenedesmus subspicatus	Manufacturer DIN 38412
	Crustacea toxicity	NOEC	12,5 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer
	Acute bacteria toxicity	(EC50 mg/l)	> 600	0,5 h	Activated sludge	Manufacturer ISO 8192-1986

12.2. Persistence and degradability

Product is biodegradable.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
111-76-2	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve			
	OECD 301B	28 %		Manufacturer
	OECD 301E	> 95 %		Manufacturer
	OECD 302B	> 90 %		Manufacturer
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	98,51%	29	Manufacturer
	Readily biodegradable (according to OECD criteria).			
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone			
	OECD 301A	28 %		Manufacturer

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-51-6	benzyl alcohol	1,05

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

For cleaning up: Water (with cleaning agent)

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 1993

14.2. UN proper shipping name:

FLAMMABLE LIQUID, N.O.S. (1-methoxy-2-propanol; monopropylene glycol methyl ether, 4-hydroxy-4-methylpentan-2-one; diacetone alcohol)

14.3. Transport hazard class(es):

3

14.4. Packing group:

III

Hazard label:

3

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Classification code: F1
 Special Provisions: 274 601
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (1-methoxy-2-propanol; monopropylene glycol methyl ether, 4-hydroxy-4-methylpentan-2-one; diacetone alcohol)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 274 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (1-methoxy-2-propanol; monopropylene glycol methyl ether, 4-hydroxy-4-methylpentan-2-one; diacetone alcohol)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Marine pollutant: -
 Special Provisions: 223, 274, 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (1-methoxy-2-propanol; monopropylene glycol methyl ether, 4-hydroxy-4-methylpentan-2-one; diacetone alcohol)
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 10 L

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Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: flammable liquids. Vapours can form explosive mixtures with air.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 71, Entry 75

2010/75/EU (VOC): 100 %

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

Additional information

Regulation on Flammable Liquids - VbF:

Flammable Liquid Group: BII (Flash point: 21°C - 55 °C; Miscible with: Water)

15.2. Chemical safety assessment

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

SECTION 16: Other information**Abbreviations and acronyms**

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

Safety Data Sheet

according to UK REACH Regulation

TipClean

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ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
 intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety
 assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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