

## safety data sheet

according to Regulation (EC) No. 1907/2006

## TipClean

Revised on: 02/13/2019

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

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**Material number:**

0202

1004-4

5502

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

diluent

**1.3. Details of the supplier providing the safety data sheet**

Company name: Sambol-IBS GmbH  
Street: Walter-Schellenberg-Str. 6  
Location: D-78315 Radolfzell  
Phone: +49-(0)7732 5 65 69  
E-mail: kontakt@sambol.de  
Contact Person: Mr. Sambol

Fax: +49-(0)7732 4627

Phone:+49-(0)7732 5 65 69

**1.4. Emergency number:**

Normal business hours: Monday - Thursday, 8 a.m. - 12 p.m. and 1 p.m. - 4 p.m.  
Friday, 8 a.m. - 12 p.m. Phone: +49(0)7732 5 65 69

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquids: Flam. bottle 3

Acute Toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin irritant. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE. 3

Hazard warnings:

Flammable liquid and vapour.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness and dizziness.

**2.2. marking elements****Regulation (EC) No. 1272/2008****Hazard-determining components for labeling**

1-methoxy-2-propanol; monopropylene glycol methyl ether

2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol

**signal word:** danger

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**Pictograms:****hazard warnings**

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

**safety instructions**

P102	Keep out of the reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Any contaminated clothing move out immediately. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Carbon dioxide (CO <sub>2</sub> ).Extinguishing powder.Water spray jet. use to delete.
P403+P233	Keep in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/ container to an approved waste disposal facility

**2.3. Other dangers**

Results of PBT and vPvB assessment: not applicable

**SECTION 3: Composition/information on ingredients****3.2. mixtures**

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## Hazardous ingredients

CAS no.	designation			Portion
	EC no.	index no.	REACH no.	
	GHS classification			
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; ethylene glycol monobutyl ether; butyl glycol			25-50%
	203-905-0	603-014-00-0	01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, skin irritation. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol			3 - 7%
	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			< 1%
	212-828-1	606-021-00-7	01-2119472430-46	
	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.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

Take off immediately all contaminated clothing.

## After inhalation

Provide fresh air. Give oxygen if breathing is difficult. When in doubt or if symptoms are present, seek medical advice.

## after skin contact

After contact with skin, wash immediately with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

## After eye contact

In case of contact with eyes, rinse immediately with running water for 10 to 15 minutes holding eyelids apart. Then consult an ophthalmologist.

## After swallowing

Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Consult doctor immediately.

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

There is no information.

## 4.3. Indications of immediate medical attention or special treatment

Symptomatic treatment. Symptoms can also only appear after many hours, therefore medical supervision at least up to 48 hours after the accident.

## SECTION 5: Firefighting measures

## 5.1. extinguishing agent

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**Suitable extinguishing media**

Water spray jet, carbon dioxide (CO<sub>2</sub>), extinguishing powder.  
In the event of a major fire and large quantities: water spray jet; alcohol resistant foam.

**Unsuitable extinguishing media**

full water jet.

**5.2. Special hazards arising from the substance or mixture**

Flammable. Vapors may form explosive mixtures with air.  
In case of fire may be liberated: nitrogen oxides (NO<sub>x</sub>). carbon monoxide. carbon dioxide (CO<sub>2</sub>). Gases/vapours, toxic.

**5.3. Advice for fire fighting**

Wear self-contained breathing apparatus and chemical protective suit. protective suit.

**Additional information**

Use a water spray jet to protect people and to cool containers in the danger area.  
Suppress gases/vapours/mist with water spray jet. Collect contaminated extinguishing water separately.  
Do not discharge into drains or rivers.

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

Remove all sources of ignition. Ensure adequate ventilation. Do not breathe gas/fume/vapour/spray.  
Avoid contact with skin, eyes and clothes. Use personal protective equipment.

**6.2. environmental protection measures**

Do not discharge into drains or rivers. Do not allow to get into the subsoil/soil.  
Notify the responsible authorities if gas escapes or if gas enters water, soil or sewage system.

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

Pick up with liquid-binding material (sand, kieselguhr, acid binder, universal binder). Treat the material taken up according to the Disposal section.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protective equipment: see section 8  
Disposal: see section 13

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

Ensure adequate ventilation and local extraction at critical points. Provide room air extraction at floor level. (Vapours are heavier than air.) Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protective equipment.

**Information about fire and explosion protection**

Vapors can form an explosive mixture with air. Keep away from sources of ignition - No smoking.  
Take precautionary measures against electrostatic charges.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and containers**

Keep/store only in the original container. Keep container tightly closed. Keep container in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. Protect from sun exposure.

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**Notes on storage together**

Do not store together with: acids, bases, oxidizing agents.  
Keep away from food, drink and animal feedingstuffs.

Storage class according to TRGS 510: 3 (Flammable liquids)

**7.3. Specific End Uses**

diluent

**SECTION 8: Exposure controls/personal protection****8.1. Parameters to monitor****Occupational exposure limits (TRGS 900)**

CAS no.	designation	ppm	mg/m <sup>3</sup>	F/m <sup>3</sup>	peak limit	kind
107-98-2	1-Methoxy-2-propanol	100	370		2(I)	
111-76-2	2-butoxyethanol	10	49		4(II)	
123-42-2	4-Hydroxy-4-methyl-pentan-2-one	20	96		2(I)	
872-50-4	N-methyl-2-pyrrolidone (vapor)	20	82		2(I)	

**Biological limit values (TRGS 903)**

CAS no.	designation	parameter	limit	sub material	Rehearsals.- Time
107-98-2	1-Methoxypropan-2-ol	1-Methoxypropan-2-ol	15 mg/l U		b
111-76-2	2-butoxyethanol	Butoxyacetic acid (according to hydrolysis to creatinine)	150 mg/g U		b,c
872-50-4	N-methyl-2-pyrrolidone	5-Hydroxy-N-methyl-2-pyrrolidone	150 mg/l U		b

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## DNEL/DMEL values

CAS no.	designation			
DNEL type		route of exposure	Effect	value
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol			
Consumer DNEL, acute		inhalative	local	123 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalative	systemic	426 mg/m <sup>3</sup>
Workers DNEL, acute		inhalative	local	246 mg/m <sup>3</sup>
Workers DNEL, acute		inhalative	systemic	663 mg/m <sup>3</sup>
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol			
Consumer DNEL, long-term		orally	systemic	3.4 mg/kg bw/d
Workers DNEL, long-term		dermal	systemic	9.4 mg/kg bw/d
Consumer DNEL, long-term		dermal	systemic	3.4 mg/kg bw/d
Workers DNEL, acute		inhalative	local	240 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalative	local	120 mg/m <sup>3</sup>
Workers DNEL, long-term		inhalative	local	66.4 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalative	local	11.8 mg/m <sup>3</sup>
Workers DNEL, long-term		inhalative	systemic	66.4 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalative	systemic	11.8 mg/m <sup>3</sup>
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone			
Workers DNEL, long-term		inhalative	local	40 mg/m <sup>3</sup>

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## PNEC values

CAS no.	designation	value
environmental compartment		
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol	
Freshwater		8.8mg/l
seawater		0.88mg/l
freshwater sediment		34.6mg/kg
marine sediment		3.46mg/kg
Microorganisms in sewage treatment plants		463mg/l
floor		2.8mg/kg
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol	
Freshwater		2mg/l
seawater		0.2mg/l
marine sediment		0.91mg/kg
Microorganisms in sewage treatment plants		82mg/l
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	
Freshwater		0.25mg/l
Freshwater (intermittent release)		5mg/l
seawater		0.025mg/l
freshwater sediment		0.805mg/kg
marine sediment		0.0805mg/kg
Microorganisms in sewage treatment plants		10mg/l
floor		0.138mg/kg

## 8.2. Limitation and monitoring of exposure

**Appropriate engineering controls**

Ensure adequate ventilation and local extraction at critical points.

**Protection and hygiene measures**

Take off dirty, soaked clothes immediately. Preventive skin protection with skin protection ointment. Wash hands and face thoroughly before breaks and at the end of work, take a shower if necessary. Do not eat, drink or smoke when using. Do not breathe gas/fume/vapour/spray. Avoid contact with eyes and skin. Keep away from food, drink and animal feedingstuffs.

**Eye/face protection**

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

**handguard**

Wear suitable protective gloves.

Suitable material: PVA (polyvinyl alcohol), butyl rubber, FKM (fluoro rubber), CR (polychloroprene, chloroprene rubber).

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When handling chemical agents, only chemical protective gloves with a CE mark including a four-digit test number may be worn. Chemical protective gloves are to be selected specifically for the workplace depending on the concentration and quantity of hazardous substances. It is recommended to clarify the chemical resistance of the above protective gloves for special applications with the glove manufacturer.

**body armor**

Wear suitable protective clothing when working. Apron (DIN EN 14605+A1), boots (DIN EN ISO 20345), chemical protection suit (DIN EN 13688).

**respiratory protection**

In case of insufficient ventilation wear respiratory protection. short-term: full/half/quarter mask (DIN EN 136/140), combination filter device (EN 14387) particle filter device (DIN EN 143); A1 long-term: container device with compressed air (SCBA) (DIN EN 137)

**Limitation and monitoring of environmental exposure**

Avoid release to the environment.

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

state of aggregation:	Fluid	
Colour:	colorless	
Odor:	characteristic	
PH value:		not applicable
<b>state changes</b>		
melting point:		not determined
Initial boiling point and boiling range:		117 - 205 °C
flash point:		37°C
<b>flammability</b>		
Solid:		not applicable
Gas:		not applicable
<b>explosion hazards</b>		
The product is not explosive. Vapors may form explosive mixtures with air.		
Lower explosion limit:		not determined
Upper explosion limit:		not determined
ignition temperature:		240°C
<b>autoignition temperature</b>		
Solid:		not applicable
Gas:		not applicable
decomposition temperature:		not determined
<b>oxidizing properties</b>		
Not flammable.		
vapor pressure:		not determined
Density (at 20 °C):		0.814 g/cc



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water solubility:	fully miscible
<b>Solubility in other solvents</b> not determined	
Partition coefficient:	not determined
Dynamic viscosity:	not determined
children Viscosity:	not determined
vapor density:	not determined
Evaporation Rate:	not determined
Solvent content:	100.00%

**9.2. Other Information**

Odor threshold: not determined

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

Flammable.

**10.2. Chemical Stability**

The product is stable when stored 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 (eg hot surfaces), sparks and open flames. Protect from sun exposure.

**10.5. Incompatible materials**

Acids, alkalis, oxidizing agents..

**10.6. Hazardous decomposition products**

In case of fire may be liberated: nitrogen oxides (NOx). carbon monoxide. carbon dioxide (CO2). Gases/vapours, toxic.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****acute toxicity**

Harmful if inhaled.

**ATEmix calculated**

ATE (inhalative aerosol) 5,000 mg/l

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CAS no.	designation				
	route of exposure	dose	species	source	method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	orally	LD50 5660 mg/kg	rat	Manufacturer	
	dermal	LD50 13000 mg/kg	Rabbits	Manufacturer	
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol				
	orally	LD50 1746 mg/kg	rat	Manufacturer	OECD 401
	dermal	ATE 1100 mg/kg			
	inhaled steam	ATE 11mg/l			
	inhalative aerosol	ATE 1.5 mg/l			
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol				
	orally	LD50 3002 mg/kg	rat	Manufacturer	
	dermal	LD50 13630 mg/kg	Rabbits	Manufacturer	
872-50-4	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone				
	orally	LD50 4150 mg/kg	rat	Manufacturer	
	dermal	LD50 8000 mg/kg	Rabbits	Manufacturer	

**Irritant and corrosive effects**

- Causes skin irritation.
- Causes serious eye irritation.

**Sensitizing Effects**

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

**Carcinogenic, mutagenic and reprotoxic effects**

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

**Specific target organ toxicity - single exposure**

May cause drowsiness and dizziness. (1-Methoxy-2-Propanol; Monopropylene Glycol Methyl Ether)

**Specific target organ toxicity - repeated exposure**

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

**aspiration hazard**

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

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

The product is not: Ecotoxic.

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CAS no.	designation					
	Aquatic Toxicity	dose	[h]   [d]	Species	source	method
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol					
	Acute Fish Toxicity	LC50 1490 mg/l	96 h	Lepomis macrochirus	Manufacturer	DIN 38412
	Acute algal toxicity	ErC50 1840 mg/l	72 h	Pseudokirchneriella subcapitata	Manufacturer	OECD 201
	acute crustacea toxicity	EC50 1550 mg/l	48 hours	Daphnia magna	Manufacturer	OECD 202
	fish toxicity	NOEC > 100 mg/l	21 d	Brachydanio rerio (zebrafish)	Manufacturer	
123-42-2	4-hydroxy-4-methylpentan-2-one; diacetone alcohol					
	Acute Fish Toxicity	LC50 > 100 mg/l	96 h	Oryzias latipes (ricefish)	Manufacturer	
	Acute algal toxicity	ErC50 > 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Manufacturer	
	acute crustacea toxicity	EC50 > 1000 mg/l	48 hours	Daphnia magna (Big water flea)	Manufacturer	
	algae toxicity	NOEC 1000 mg/l	3d	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 > 500 mg/l	96 h	Oncorhynchus mykiss (rainbow trout)	Manufacturer	
	Acute algal toxicity	ErC50 > 500 mg/l	72 h	Scenedesmus subspicatus	Manufacturer	DIN 38412
	crustacea toxicity	NOEC 12.5 mg/l	21 d	Daphnia magna (Big water flea)	Manufacturer	
	Acute bacterial toxicity	(> 600 mg/l)	0.5 h	activated sludge	Manufacturer	ISO 8192-1986

**12.2. Persistence and degradability**

The product is biodegradable.

CAS no.	designation			
	method	value	no	source
	valuation			
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether; butyl glycol			
	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 Easily biodegradable (according to OECD criteria).	98.51%	29	manufacturers
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.

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**12.4. mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

not applicable

**12.6. Other harmful effects**

There is no information.

**More information**

Avoid release to the environment.

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

Do not discharge into drains or rivers. Disposal according to official regulations.

**Disposal of uncleaned packaging and recommended cleaning agents**

Disposal according to official regulations. Completely emptied packaging can be recycled.

For cleaning: water (with detergent)

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

UN 1993

**14.2. UN proper shipping name:**

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

**14.3. Transport hazard classes:**

3

**14.4. Packing group:**

III

Danger label:

3



Classification code:

F1

Special Provisions:

274 601

Limited Quantity (LQ):

5 L

Exempted amount:

E1

Carriage category:

3

Danger number:

30

Tunnel Restriction Code:

D/E

**Inland waterway transport (ADN)****14.1. UN number:**

UN 1993

**14.2. UN proper shipping name:**

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

**14.3. Transport hazard classes:**

3

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**14.4. Packing group: Danger**

label:

III

3



Classification code:

F1

Special Provisions:

274 601

Limited Quantity (LQ):

5 L

Exempted amount:

E1

**Sea Transport (IMDG)****14.1. UN number:**

UN 1993

**14.2. UN proper****shipping name:**FLAMMABLE LIQUID, NOS (1-methoxy-2-propanol;  
monopropylene glycol methyl ether, 4-hydroxy-4-methylpentan-2-one;  
diacetone alcohol)**14.3. Transport hazard classes:**

3

**14.4. Packing group: Danger, label:**

III

3



Special Provisions:

223, 274, 955

Limited Quantity (LQ):

5 L

Exempted amount:

E1

EmS:

FE, SE

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 1993

**14.2. UN proper****shipping name:**FLAMMABLE LIQUID, NOS (1-methoxy-2-propanol; monopropylene glycol  
methyl ether, 4-hydroxy-4-methylpentan-2-one; diacetone alcohol)**14.3. Transport hazard classes:**

3

**14.4. Packing group: Danger, label:**

III

3



Special Provisions:

A3

Limited Quantity (LQ) Passenger:

10 L

Passenger LQ:

Y344

Exempted amount:

E1

IATA Packing Instruction - Passenger:

355

IATA Maximum Quantity - Passenger:

60 L

IATA Packing Instruction - Cargo:

366

IATA Maximum Quantity - Cargo:

220L

**14.5. environmental hazards**

DANGEROUS FOR THE ENVIRONMENT:

no

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**14.6. Special precautions for user**

Warning: flammable liquids.

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

not applicable

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

Authorizations (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: 1-methoxy-2-propanol; monopropylene glycol methyl ether; 2-butoxyethanol;  
ethylene glycol monobutyl ether; butyl glycol; 4-hydroxy-4-methylpentan-2-one; diacetone alcohol;  
N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone

entry 30: N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone

entry 40: 4-hydroxy-4-methylpentan-2-one; diacetone alcohol; 1-methoxy-2-propanol;  
monopropylene glycol methyl ether

entry 71: N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone

Information on the IE Directive 2010/75/EU (VOC): 100%

Information on the VOC directive 2004/42/EC: 100%

Information on the SEVESO III directive 2012/18/EU: P5c FLAMMABLE LIQUIDS

**National regulations**

Employment Restriction: Observe employment restrictions for young people (§ 22 JArbSchG).

Technical Instructions Air I:

Portion: Class(es) NK: 75 - 100%

Water hazard class: 1 - slightly hazardous to water

Status: Mixture rule according to Annex 1 No. 5 AwSV

**Additional information**

Ordinance on flammable liquids - VbF:

Flammable liquid of group: BII (Flash point: 21 °C - 55 °C; Miscible with: water)

**15.2. chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and Acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

classification	grading procedure
Flam. liquid 3; H226	Based on test data
Acute Tox. 4; H332	calculation method
skin irritation 2; H315	calculation method
eye irritation 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H360D	May harm the unborn child.

**More information**

The information is based on the current state of our knowledge, but it does not represent a guarantee of product properties and does not constitute a contractual legal relationship. Existing laws and regulations are the responsibility of the recipient of our products.

*(The data on the hazardous ingredients were taken from the most recent safety data sheet from the pre-supplier.)*