Safety Data Sheet

according to UK REACH Regulation

Screen

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

1.1. Product identifier

Screen

Further trade names

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UFI: 5CC0-Y0X0-300R-4U98

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

Uses advised against

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name:	ITW LLC & Co. KG
Street:	Am Eichenbach 14
Place:	D-73054 Eislingen/Fils
Telephone:	+49 800 6273002
E-mail:	skrautmann@itwindustrialsolutions.com
Contact person:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00 Telephone: ++49 800 6273002
E-mail:	info@itwindustrialsolutions.com
Internet:	www.itwindustrialsolutions.com
Responsible Department:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00 Deutschland: Vergiftungs-Informations-Zentrale Freiburg 0761 19240 Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in Switzerland dial 145) United Kingdom : National Poisons Information Service - Phone number : 8448920111 Österreich : Vergiftungsinformationszentrale Vienna - Telefon-Nummer : +43 1 406 43 43 Schweiz : Tox Info Suisse - Telefon-Nummer : +41 44 251 51 51 España : Instituto Nacional de Toxicología - Teléfono : +34 91 562 04 20 România (Romania): Spitalul de Urgenta Floreasca 021 230 8000 România (Romania): Spitalul de Urgenta Floreasca 021 230 8000 CAV “Ospedale Pediatrico Bambino Gesù” – Roma Tel. (+39) 06.6859.3726 CAV “Azienda Ospedaliera Università di Foggia” – Foggia Tel. 800.183.459 CAV “Azienda Ospedaliera A. Cardarelli” – Napoli Tel. (+39) 081.545.3333 CAV Policlinico “Umberto I” – Roma Tel. (+39) 06.4997.8000 CAV Policlinico “A. Gemelli” – Roma Tel. (+39) 06.305.4343 CAV Azienda Ospedaliera “Careggi” U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819 CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444 CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29 CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00 CAV Centro antiveleni Veneto – Verona Tel. 800.011.858 Slovakia: National Toxicological Information Centre Bratislava +421 2 5465 2307 Czech Republic: Ministry of Health of the Czech Republic Chemical Substances and Biocidal Products Unit +420 267 082 236 Slovakia: National Toxicological Information Centre Bratislava +421 2 5465 2307

1.4. Emergency telephone number:

Deutschland: ++49 800 6273002
Slovakia: National Toxicological Information Centre Bratislava +421

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories:
Aerosols: Aerosol 1
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Precautionary statements

P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P251	Do not pierce or burn, even after use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3. Other hazards

Ergebnisse der PBT- und vPvB-Beurteilung
PBT: Nicht anwendbar.
PvB: Nicht anwendbar.
Results of PBT and vPvB assessment
PBT
Not applicable.
PvB
Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
106-97-8	butane			<10%
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			1-10%
	203-539-1	603-064-00-3		
	Flam. Liq. 3, STOT SE 3; H226 H336			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			<10%
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
74-98-6	propane			<10%
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
1336-21-6	ammonia ... %			<1%
	215-647-6	007-001-01-2		
	Skin Corr. 1B, Aquatic Acute 1; H314 H400			
7632-00-0	sodium nitrite			<1%
	231-555-9	007-010-00-4		
	Ox. Sol. 3, Acute Tox. 3, Aquatic Acute 1; H272 H301 H400			
1310-73-2	sodium hydroxide; caustic soda			<1%
	215-185-5	011-002-00-6		
	Skin Corr. 1A; H314			
100-51-6	benzyl alcohol			<1%
	202-859-9	603-057-00-5		
	Acute Tox. 4, Acute Tox. 4; H332 H302			
110-91-8	morpholine			<1%
	203-815-1	613-028-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H226 H332 H312 H302 H314			

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

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	1-10%
	dermal: LD50 = 11000 mg/kg; oral: LD50 = > 5000 mg/kg		
1336-21-6	215-647-6	ammonia ... %	<1%
	STOT SE 3; H335: >= 5 - 100		
7632-00-0	231-555-9	sodium nitrite	<1%
	oral: LD50 = 180 mg/kg		
1310-73-2	215-185-5	sodium hydroxide; caustic soda	<1%
	Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2		
100-51-6	202-859-9	benzyl alcohol	<1%
	inhalation: ATE = 4500 ppm (gases); oral: LD50 = 1230 mg/kg		
110-91-8	203-815-1	morpholine	<1%
	inhalation: ATE = 4500 ppm (gases); dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

Unsuitable extinguishing media

Water with tenside additive. Water.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up

For containment

For cleaning up Wash with plenty of water.

For cleaning up

For cleaning up Wash with plenty of water.

Other information

Ventilate affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Recommended storage temperature 20°C

7.3. Specific end use(s)

.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
7664-41-7	Ammonia, anhydrous	25	18		TWA (8 h)	WEL
		35	25		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-91-8	Morpholine	10	36		TWA (8 h)	WEL
		20	72		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

EN ISO 374 Tested protective gloves are to be worn: NBR (Nitrile rubber) 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. NBR (Nitrile rubber)

Skin protection

Protective clothing:

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	Foam.	
Odour:	characteristic	
Boiling point or initial boiling point and boiling range:		-0,5 °C
Lower explosion limits:		1,4 vol. %
Upper explosion limits:		13,1 vol. %
Flash point:		<0°C °C
Auto-ignition temperature:		270 °C
Vapour pressure: (at 20 °C)		2100 hPa

Vapour pressure: (at 50 °C)	4900 hPa
Density (at 20 °C):	0,84 g/cm³

9.2. Other information

Keine weiteren relevanten Informationen verfügbar.
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation gas) > 20000 ppm

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 > 5000 mg/kg	Rat	IUCLID	
	dermal	LD50 11000 mg/kg	Rabbit		
7632-00-0	sodium nitrite				
	oral	LD50 180 mg/kg	Rat	GESTIS	
100-51-6	benzyl alcohol				
	oral	LD50 1230 mg/kg	Rat	GESTIS	
	inhalation gas	ATE 4500 ppm			
110-91-8	morpholine				
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation gas	ATE 4500 ppm			

Irritation and corrosivity

Irritating to eyes. Vapours may cause drowsiness and dizziness.

Sensitising effects

not sensitising.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Other information

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
Based on the available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether					
	Acute fish toxicity	LC50 4600 - 10000 mg/l	96 h	Leuciscus idus	IUCLID	
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	IUCLID	
1336-21-6	ammonia ... %					
	Acute fish toxicity	LC50 0,53 mg/l	96 h	Onchorhynchus mykiss		
	Fish toxicity	NOEC 1,2 mg/l	61 d	Oncorhynchus gorbuscha		
7632-00-0	sodium nitrite					
	Acute fish toxicity	LC50 0,56 - 1,78 mg/l	96 h	Onchorhynchus mykiss		

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437
74-98-6	propane	2,36
1336-21-6	ammonia ... %	-1,38
7632-00-0	sodium nitrite	-3,7
100-51-6	benzyl alcohol	1,05

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 data available

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 625
Limited quantity:	1 L
Transport category:	2
Tunnel restriction code:	D

Other applicable information (land transport)

E0

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1



Classification code:	5F
Special Provisions:	190 327 344 625
Limited quantity:	1 L

Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

14.1. UN number or ID number:	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2, see SP63

Special Provisions:	63, 190, 277, 327, 344, 959
Limited quantity:	See SP277
EmS:	F-D, S-U

Other applicable information (marine transport)

E0

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
Hazard label:	2.1



Special Provisions:	A145 A167
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Other applicable information (air transport)

E0

: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Keine weiteren relevanten Informationen verfügbar.

No further relevant information available.

14.7. Maritime transport in bulk according to IMO instruments

Keine weiteren relevanten Informationen verfügbar.

No further relevant information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28, Entry 40, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 40,86 % (343,224 g/l)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

Abbreviations and acronyms

Ox. Sol: Oxidising solids
Flam. Gas: Flammable gases
Flam. Liq: Flammable liquids
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Eye Irrit: Eye irritation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.

H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

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