

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 1 of 10

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

Isotemp

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

Reserved for industrial and professional use.

Acetone is listed as a reportable explosives precursor in Annex II of EU regulation 2019/1148

Aceton ist in Anhang II der EU-Verordnung 2019/1148 als meldepflichtiger

Explosivstoffvorläufer aufgeführt

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

Company name:	ITW LLC & Co. KG		
Street:	Mühlackerstrasse 149		
Place:	D-75417 Mühlacker		
Telephone:	++49(0)7041-96340	Telefax:	++49(0)7041-963429
e-mail:	info@itwcp.de		
Internet:	www.itwcp.de		
Responsible Department:	Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00		
	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		
	Deutschland: ++49(0)7041-96340		

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

Hazard categories:

Aerosol: Aerosol 1

Acute toxicity: Acute Tox. 4

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.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

n-butyl acetate, Acetone

**Signal word:** Danger

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 2 of 10

**Pictograms:****Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

**Precautionary statements**

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P211	Do not spray on an open flame or other ignition source.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P302+P352	IF ON SKIN: Wash with plenty of water.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Special labelling of certain mixtures**

EUH066	Repeated exposure may cause skin dryness or cracking.
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**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Isotemp

Revision date: 17.03.2021

Product code: 122

Page 3 of 10

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
115-10-6	dimethyl ether			20-40%
	204-065-8	603-019-00-8		
	Flam. Gas 1; H220			
1330-20-7	xylene			15-20%
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
123-86-4	n-butyl acetate			15-20%
	204-658-1	607-025-00-1		
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
67-64-1	acetone; propan-2-one; propanone			15-20%
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
108-94-1	cyclohexanone			5-10%
	203-631-1	606-010-00-7		
	Flam. Liq. 3, Acute Tox. 4; H226 H332			
100-41-4	ethylbenzene			1-5%
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			

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

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

###### After contact with skin

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

###### 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 (CO<sub>2</sub>). Foam. Extinguishing powder.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 4 of 10

**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**

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

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

**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**

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.

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

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

**Hints on joint storage**

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

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 5 of 10

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
108-94-1	Cyclohexanone	10	41		TWA (8 h)	WEL
		20	82		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift
108-94-1	Cyclohexanone	cyclohexanol (creatinine)	2 mmol/mol	urine	Post shift

**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.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 6 of 10

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

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic

**Changes in the physical state**

Initial boiling point and boiling range:	56 °C
Flash point:	<0°C °C
Lower explosion limits:	1,3 vol. %
Upper explosion limits:	14,3 vol. %
Ignition temperature:	430 °C
Vapour pressure: (at 20 °C)	246 hPa
Vapour pressure: (at 50 °C)	814 hPa
Density:	0,94 g/cm <sup>3</sup>
Solvent content:	13,04 %

**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 toxicological effects****Acute toxicity**

Acute toxicity, oral. Acute toxicity, inhalant.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Isotemp

Revision date: 17.03.2021

Product code: 122

Page 7 of 10

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1330-20-7	xylene				
	dermal	ATE mg/kg	1100		
	inhalation gas	ATE ppm	4500		
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 mg/kg	5800	Rat	RTECS
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID
	inhalation (4 h) vapour	LC50	76 mg/l	Rat	
108-94-1	cyclohexanone				
	inhalation gas	ATE ppm	4500		
100-41-4	ethylbenzene				
	oral	LD50 mg/kg	3500	Rat	GESTIS
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat	
	inhalation gas	ATE ppm	4500		

#### Irritation and corrosivity

Irritating to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-64-1	acetone; propan-2-one; propanone					
	Acute fish toxicity	LC50 mg/l	5540	96 h Onchorhynchus mykiss		
	Acute crustacea toxicity	EC50 mg/l	6100	48 h Daphnia magna		
100-41-4	ethylbenzene					
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	GESTIS	

#### 12.3. Bioaccumulative potential

##### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1
67-64-1	acetone; propan-2-one; propanone	-0,24
108-94-1	cyclohexanone	0,81
100-41-4	ethylbenzene	3,15

### SECTION 13: Disposal considerations

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 8 of 10

**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**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN 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:** 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:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 9 of 10

**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:** 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

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

2004/42/EC (VOC): 30,433 %

**National regulatory information**

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

**SECTION 16: Other information****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.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Isotemp**

Revision date: 17.03.2021

Product code: 122

Page 10 of 10

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

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