

FLUX-OFF

Page: 1

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Revision No: 1

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

1.1. Product identifier

Product name: FLUX-OFF
Product code: 705.400.000

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

Use of substance / mixture: Cleaning agent / Cleaner

1.3. Details of the supplier of the safety data sheet

Company name: ECS AG

Roosstr.53

CH-8832 Wollerau

Switzerland

Tel: +41 (0)44 / 7875353

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Aerosol 1: H222;

Skin Irrit. 2: H315; Asp. Tox. 1: H304; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin

irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.
H304: May be fatal if swallowed and enters airways.

Hazard pictograms: GHS02: Flame

FLUX-OFF

Page: 2

GHS07: Exclamation mark GHS09: Environmental







Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use. P273: Avoid release to the environment.

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

P337+313: If eye irritation persists: Get medical advice/attention.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}\text{C}.$

P501: Dispose of to.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319;	25.000%
			STOT SE 3: H336	

KOHLENWASSERSTOFFE, C6-C7, N-ALKANE, ISOALKANE, CYLENE, <5%N-HEXAN - REACH registered number(s): 01-2119475514-35

921-024-6	-	-	Flam. Liq. 2: H225; Aquatic Chronic 2:	25.000%
			H411; Skin Irrit. 2: H315; STOT SE 3:	
			H336; Asp. Tox. 1: H304	

N-BUTYL ACETATE

204-658-1	123-86-4	-	Flam. Liq. 3: H226; STOT SE 3: H336;	15.000%
			-: EUH066	

1-METHOXY-2-PROPANOL

203-539-1	107-98-2		Flam. Lig. 3: H226; STOT SE 3: H336	5.000%
203-539-1	107-90-2	-	Flaill. Liq. 3. 1220, 3101 3E 3. 1330	5.000%

FLUX-OFF

Page: 3

DIMETHOXYMETHAN

203-714-2	109-87-5	Substance with a Community workplace exposure limit.	Flam. Liq. 2: H225	5.000%		
KOHLENDIOXID						
204-696-9	124-38-9	Substance with a Community workplace exposure limit.	Press. Gas: H280	5.000%		

Contains: aliphatic hydrocarbons 15-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

immediately with plenty of soap and water.

Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult

a doctor.

Ingestion: If symptoms persist consult doctor.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or

alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect

contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

FLUX-OFF

Page: 4

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective

authorities in case of seepage into water course or sewage system. Do not allow to

enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS. Safe handling: see section 7

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do

not smoke. Pressurised container: protect from sunlight and do not expose to

temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers.

Pressurised container: protect from sunlight and do not expose to temperatures

exceeding 50°C, i.e. electric lights. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m3	1250 mg/m3	-	-

N-BUTYL ACETATE

UK	K 724 mg/m3	966 mg/m3	-	-
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FLUX-OFF

Page: 5

1-METHOXY-2-PROPANOL

UK	375 mg/m3	560 mg/m3	-	-		
DIMETHOXYMETHAN						
EU	3200 mg/m3	-	-	-		
KOHLENDIOXID						
EU	9100 mg/m3	-	-	-		

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and

contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact

with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive

or longer exposure use self-contained respiratory protective device. Short term filter

device: Filter A/P2

Hand protection: Protective gloves. The glove material has be impermeable and resitant to the product /

the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Viton gloves. Recommended thickness of the material: >=0,4mm The selection of the suitable gloves does not only

depend on the materail, but also on further marks of quality and varies from

manufacturer to manufaturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to

be checked prior to the application. Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Colourless

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Viscosity: Not determined.

Boiling point/range°C: Not applicable. Melting point/range°C: Undetermined.

Flammability limits %: lower: 1,0 Vol% upper: 12,0 Vol%

Flash point°C: -18°C Autoflammability°C: >200°C

Vapour pressure: bei 20 °C: 6500hPa Relative density: Not determined.

pH: Not applicable. VOC g/I: 95,10%

FLUX-OFF

Page: 6

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air /

vapour mixtures are possible. Density at 20°C: 0,78 g/cm3

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decompsition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

$KOHLENWASSERSTOFFE,\,C6-C7,\,N-ALKANE,\,ISOALKANE,\,CYLENE,\,<5\%N-HEXAN$

DERMAL	RBT	LD50	>2920	mg/kg
GASES	RAT	4H LC50	25,2	mg/l
ORAL	RAT	LD50	>5840	mg/kg

N-BUTYL ACETATE

ORL	MUS	LD50	6	gm/kg
ORL	RAT	LD50	10768	mg/kg

FLUX-OFF

Page: 7

1-METHOXY-2-PROPANOL

IVN	RAT	LD50	4200	mg/kg
ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLENWASSERSTOFFE, C6-C7, N-ALKANE, ISOALKANE, CYLENE, <5%N-HEXAN

ALGAE	72H ErC50	30	mg/l
Daphnia magna	48H EC50	3	mg/l
Oncorhynchus mykiss	96H ErC50	11,4	mg/l

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic for fish Water hazard class 2 (German Regulation) (Self-assessment): hazardous

for water Do not allow product to reach ground water, water course or sewage system.

FLUX-OFF

Page: 8

Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach

sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to

official regulations.

NB: The user's attention is drawn to the possible existence of regional or national

regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS AEROSOLS

(Hydrocarbons, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5%N-HEXANE)

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gase)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Gases EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code:

SG69

Tunnel code: D

IMDG seg. group: LQ: 1L; EQ E0

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: Not applicable.

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients

is listed. Seveso category:

E2 Hazardous to the Aquatic Environment

P3b Flammable Aerosols Qualifying quantity (tonnes) for the application of lower-tier

FLUX-OFF

Page: 9

requirements 200 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H229: Pressurised container: May burst if heated

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.