Dr. Grogg Chemie AG
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COVER SHEET FOR THE SAFETY DATA SHEET

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Item number: G358

Trade name: Ethylmethylketone pure

Supplier:
Dr. Grogg Chemie AG
Gümligentalstrasse 83
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Emergency number:
24-hour emergency number: 145
Help with poisoning. Tox Info Suisse provides free medical advice round the clock in cases of poisoning or suspected poisoning.

Tox Info Suisse
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8032 Zürich
Tel. +41 (0) 44 251 51 51
www.toxinfo.ch

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SECTION 1: Identification of the product and of the company

· ***1.1 Product identity***

· ***Trade name:*** ***Methyl ethyl ketone***

· ***Article number:*** 138
· ***CAS Number:***
78-93-3
· ***EC number:***
201-159-0
· ***Index number:***
606-002-00-3

· ***REACH Registration number*** 01-2119457290-43
· ***1.2 Relevant uses of the product and uses advised against***
For the identified uses according to regulation (EC) No 1907/2006 see Annex 1 "Identified uses of ethanol"
· ***Sector of Use***
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· ***Product category***
PC19 Intermediate
PC1 Adhesives, sealants
PC4 Anti-Freeze and de-icing products
PC9b Fillers, putties, plasters, modelling clay
PC9a Coatings and paints, thinners, paint removers
PC12 Fertilizers
PC13 Fuels
PC15 Non-metal-surface treatment products
PC18 Ink and toners
PC21 Laboratory chemicals
PC23 Leather tanning, dye, finishing, impregnation and care products
PC24 Lubricants, greases, release products
PC27 Plant protection products
PC31 Polishes and wax blends
PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids
PC35 Washing and cleaning products (including solvent based products)

· ***1.3 Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
Thommen-Furler AG
Industriestrasse 10
CH-3295 Rüti bei Büren (BE)
Tel. +41 32 352 08 00
productmanagement@thommen-furler.ch

· ***Information department:*** Product Management department
· ***1.4 Emergency telephone number:***
Toxicological information Swiss center (available 24h/7d): emergency call 145 or +41 (0) 44 251 51 51

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SECTION 2: Hazard(s) identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labeled according to the CLP regulation.
· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
· **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterization: Substances**
· **CAS No. Description**
CAS: 78-93-3 Methyl ethyl ketone
· **Identification number(s)**
· **EC number:** 201-159-0

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· ***Index number:*** 606-002-00-3

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SECTION 4: First-aid measures

· ***4.1 Description of first aid measures***
· ***After inhalation:***
Take affected persons into fresh air and keep quiet.
Seek medical treatment.
· ***After skin contact:***
Immediately remove contaminated clothing.
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:***
rinse the mouth
Drink water in small sips.
DO NOT induce vomiting. Risk of aspiration
Call a doctor immediately.
· ***4.2 Most important symptoms and effects, both acute and delayed***
Irritation of the eyes
Skin: Degreasing, with prolonged contact also irritation/inflammation
Irritant (inhalation)
Gastric or intestinal disorders
Dizziness
Headache
Nausea
Dizziness
Unconsciousness
Breathing difficulties
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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SECTION 5: Fire-fighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***For safety reasons unsuitable extinguishing agents:*** Water with full jet
· ***5.2 Special hazards arising from the substance or mixture***
Carbon monoxide (CO)
Nitrogen oxides (NOx)
· ***5.3 Advice for firefighters*** Wear self-contained breathing apparatus (SCBA).
· ***Protective equipment:*** Wear self-contained respiratory protective device.

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SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***For non-emergency personnel***
Ensure adequate ventilation. Use personal protective equipment.

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Bring people to safety.
· ***For emergency responders*** Use personal protective equipment.
· ***6.2 Environmental precautions:*** Do not allow to enter sewers/ surface or ground water.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb the liquid with an inert binder.
Ensure adequate ventilation.
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Keep receptacles tightly sealed.
Keep away from heat and direct sunlight.
· ***Information about protection against explosions and fires:***
Welding ban.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** Store in a cool location.
· ***Information about storage in one common storage facility:***
Store away from oxidizing agents.
Store away from foodstuffs.
Separate from infectious, radioactive and explosive substances
Oxidising substances of storage class 5.1
· ***Further information about storage conditions:***
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· ***Storage class:*** LK 3
· ***7.3 Specific end use(s)*** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***

· ***Components with limit values that require monitoring at the workplace:***	
CAS: 78-93-3 Methyl ethyl ketone	
MAK (Switzerland)	Short-term value: 590 mg/m³, 200 ppm Long-term value: 590 mg/m³, 200 ppm H B SSc;

· ***Ingredients with biological limit values:***	
CAS: 78-93-3 Methyl ethyl ketone	
BAT (Switzerland)	2 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: 2-Butanon (MEK)

· ***Additional information:*** The lists that were valid during the creation were used as basis.

(Contd. on page 5)

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· ***8.2 Exposure controls***
· ***Appropriate engineering controls*** No further data; see section 7.
· ***Personal protective equipment:***
· ***General protective and hygienic 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.
· ***Breathing equipment:***
Not necessary if room is well-ventilated.
Equipment should comply with EN 14387
Filter A
· ***Protection of hands:***



Protective gloves

· ***Material of gloves***
Protective gloves in accordance with standard EN 374
Butyl rubber - butyl (0.5 mm)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· ***Penetration time of glove material***
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· ***Not suitable are gloves made of the following materials:***
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
Polychloroprene - CR
Natural rubber, NR
PVC gloves
· ***Eye protection:***
Tight-fitting safety goggles in accordance with EN 166



Tightly sealed goggles

Use chemical safety goggles with side protection according to EN 166:2001.
If needed as a result of the risk evaluation, use face shield or a full face respiratory mask.
At the work place an emergency eye wash station must be available.
· ***Body protection:***
chemical protective clothing EN 13832, EN 340, EN 14065
Protective work clothing
· ***Risk management measures***
An emergency shower must be available at the workplace.
An eye shower must be available at the workplace.
Keep compressed air breathing apparatus or rebreathers (oxygen self-rescuers) ready for rescue.
Regular maintenance and inspection in accordance with the manufacturer's instructions.
Ensure good ventilation.
Vapours are heavier than air, also provide extraction on the floor!
EKAS Directive Flammable liquids
Storage and handling
Observe no. 1825

(Contd. on page 6)

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SUVA guidelines:

Explosion protection
Principles, minimum regulations, zones

must be observed!

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Liquid
· **Color:**	Colorless
· **Odor:**	Like ketone
· **Odor threshold:**	Not determined.
· **Melting point/Melting range:**	-86 °C
· **Boiling point/Boiling range:**	79.6 °C
· **Flammability:**	Highly flammable.
· **Explosion limits:**	
· **Lower:**	1.5 Vol %
· **Upper:**	11.5 Vol %
· **Flash point:**	-6 °C
· **Auto igniting:**	404 °C
· **Decomposition temperature:**	Not determined.
· **pH-value:**	Not determined.
· **Viscosity:**	
· **Kinematic:**	Not determined.
· **Dynamic at 20 °C:**	0.405 mPas
· **Solubility in / Miscibility with**	
· **Water at 20 °C:**	22 g/l
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Vapor pressure at 20 °C:**	104 hPa
· **Density and/or relative density**	
· **Density at 20 °C:**	0.805 g/cm³
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Fluid
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Not determined.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Molecular weight**	72.11 g/mol
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void

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· ***Aerosols***	Void
· ***Oxidising gases***	Void
· ***Gases under pressure***	Void
· ***Flammable liquids***	Highly flammable liquid and vapour.
· ***Flammable solids***	Void
· ***Self-reactive substances and mixtures***	Void
· ***Pyrophoric liquids***	Void
· ***Pyrophoric solids***	Void
· ***Self-heating substances and mixtures***	Void
· ***Substances and mixtures, which emit flammable gases in contact with water***	Void
· ***Oxidising liquids***	Void
· ***Oxidising solids***	Void
· ***Organic peroxides***	Void
· ***Corrosive to metals***	Void
· ***Desensitised explosives***	Void

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SECTION 10: Stability and reactivity

· ***10.1 Reactivity*** Highly flammable liquid and vapour.
· ***10.2 Chemical stability***
· ***Information on the shelf life***
The product is stable if the regulations/instructions for storage and handling are observed.
Contamination with metal salts should be avoided wherever possible.
Note shelf life!
· ***Thermal decomposition / conditions to be avoided:***
No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions*** Vapours form explosive mixtures with air.
· ***10.4 Conditions to avoid***
Avoid extreme heat. Avoid sources of ignition.
Do not heat - no flames, no sparks or other sources of ignition or conditions favouring static discharge. No smoking.
Do not drill, cut, grind, solder, braze, and weld etc. in the Ex-zone.
Prevent vapours from entering into drainage system, pits or cellars (danger of explosion).
UV radiation/sunlight.
· ***10.5 Incompatible materials:***
Bases
strong oxidising agents
Chlorate
Hydrogen peroxide
Chromic acid / Chromates
Nitrates
Nitrites
Hydrofluoric acid
· ***10.6 Hazardous decomposition products:***
Flammable gases/vapors
Irritant gases/vapors
Carbon monoxide

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SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity:*** Based on available data, the classification criteria are not met.

· ***LD/LC50 values that are relevant for classification:***		
Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

· ***Primary irritant effect:***
· ***on the eye:*** Causes serious eye irritation.
· ***Specific target organ toxicity - single exposure*** May cause drowsiness or dizziness.
· ***Additional toxicological information:***
· ***OSHA-Ca (Occupational Safety & Health Administration)*** Substance is not listed.
· ***11.2 Information on other hazards***
· ***Endocrine disrupting properties*** List II

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
LC50/96 h	3,220 mg/l (pimephales promelas)
EC50/48 h	5,091 mg/l (daphnia magnia)

· ***12.2 Persistence and degradability*** No further relevant information available.
· ***12.3 Bioaccumulative potential*** No further relevant information available.
· ***12.4 Mobility in soil*** No further relevant information available.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** Not applicable.
· ***vPvB:*** Not applicable.
· ***12.6 Endocrine disrupting properties***
For information on endocrine disrupting properties see section 11.
· ***12.7 Other adverse effects***
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 1 (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation:***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· ***Waste disposal key:*** 07 01 04

· ***Uncleaned packagings:***
· ***Recommendation:*** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1193
· **14.2 UN proper shipping name**	
· **DOT**	Ethyl methyl ketone
· **ADR**	1193 ETHYL METHYL KETONE
· **IMDG, IATA**	ETHYL METHYL KETONE
· **14.3 Transport hazard class(es)**	
· **ADR, IMDG, IATA**	



· **Class**	3 Flammable liquids
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	33
· **EMS Number:**	F-E,S-D
· **Stowage Category**	B
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	
· **Transport/Additional information:**	
· **ADR**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	2
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1193 ETHYL METHYL KETONE, 3, II

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
822.115, Ordonnance sur la protection des jeunes travailleurs - OLT 5 and 822.115.2, DEFR Ordinance on dangerous work for young people are applicable.

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· ***Sara***
· ***Section 355 (extremely hazardous substances):*** Substance is not listed.
· ***Section 313 (Specific toxic chemical listings):*** Substance is not listed.
· ***Proposition 65***
· ***Chemicals known to cause cancer:*** Substance is not listed.
· ***Chemicals known to cause reproductive toxicity for females:*** Substance is not listed.
· ***Chemicals known to cause reproductive toxicity for males:*** Substance is not listed.
· ***Chemicals known to cause developmental toxicity:*** Substance is not listed.

· ***Carcinogenic categories***
· ***EPA (Environmental Protection Agency)*** I
· ***TLV (Threshold Limit Value)*** Substance is not listed.
· ***NIOSH-Ca (National Institute for Occupational Safety and Health)*** Substance is not listed.
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labeled according to the CLP regulation.
· ***Hazard pictograms***



GHS02 GHS07

· ***Signal word*** Danger
· ***Hazard statements***
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
· ***Precautionary statements***

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** Substance is not listed.
· ***Seveso category*** P5c FLAMMABLE LIQUIDS
· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** 5.000 t
· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** 50.000 t

· ***National regulations:***

· ***Water hazard class:*** Water hazard class 1 (Assessment by list): slightly hazardous for water.

· ***Other regulations, limitations and prohibitive regulations***
· ***Additionnal informations according ChemRRV*** None.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Department issuing SDS:*** Product Management department
· ***Contact:*** Product Management

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· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **** Data compared to the previous version altered.***