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

1.1. Product identifier

MeCL2/MeOH Gemisch 87:13 v/v

Item No. 33608000

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

Use of the substance/preparation

Pharmacutical excipient

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG
Industriestrasse 35
9100 Herisau

Telephone no.	0041 (0)71 353 58 58
E-mail address of person responsible for this SDS	sdb@haenseler.ch

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Carc. 2	H351
STOT SE 2	H371
STOT SE 3	H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Warning

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H351	Suspected of causing cancer.
H371	May cause damage to organs.
H336	May cause drowsiness or dizziness.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Methanol; Dichloromethane

SECTION 3: Composition/information on ingredients

Hazardous ingredients

Dichloromethane

CAS No.	75-09-2			
EINECS no.	200-838-9			
Registration no.	01-2119480404-41-XXXX			
Concentration	>= 50			%
Classification (Regulation (EC) No. 1272/2008)				
	Carc. 2	H351		
	Eye Irrit. 2	H319		
	Skin Irrit. 2	H315		
	STOT SE 3	H336		Nervous system; Route of exposure: inhalative

Methanol

CAS No.	67-56-1			
EINECS no.	200-659-6			
Registration no.	01-2119433307-44-XXXX			
Concentration	>= 7.1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Acute Tox. 3	H301		
	Acute Tox. 3	H311		
	Acute Tox. 3	H331		
	STOT SE 1	H370		

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 1	H370	>= 10
STOT SE 2	H371	>= 3 < 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take affected person to fresh air. Irregular breathing/no breathing: artificial respiration. In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. Take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Careful when inducomg vomiting. Do not induce vomiting - aspiration hazard. Let plenty of water be drunk in small gulps. Administer activated charcoal. Summon a doctor immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

The product is not combustible. If a fire breaks out nearby evolution of dangerous gases possible. In the event of fire the following can be released: Hydrogen chloride (HCl); Phosgene

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Suppress vapours with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Do not inhale vapours. Avoid contact with skin, eyes and clothing. Ensure supply of fresh air.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. general-purpose binder). Clean contaminated floors and objects thoroughly, observing environmental regulations. Pump off large amounts. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work only in fume cupboards. Do not inhale substance. Avoid development of dusts/ billows/ steams.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	15	-	25	°C

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Unsuitable material: plastic materials. Unsuitable materials: Polyethylene, rubber. Do not use steel containers.

Storage classes

Storage class according to TRGS 510	6.1D	Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	6.1	Toxic substances

Further information on storage conditions

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Dichloromethane

List	SUVA			
Type	MAK			
Value	177	mg/m³	50	ppm(V)
Short term exposure limit	353	mg/m³	100	ppm(V)

Skin resorption / sensibilisation: H; Status: 2017; Remarks: H C1B B; ZNS; DFG, HSE, NIOSH, kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts

Methanol

List	SUVA			
Type	MAK			
Value	260	mg/m³	200	ppm(V)
Short term exposure limit	1040	mg/m³	800	ppm(V)

Skin resorption / sensibilisation: H; Pregnancy group: S; Status: 2017; Remarks: H B SSc; ZNS, Sehen; INRS, NIOSH

8.2. Exposure controls

General protective and hygiene measures

Wash contaminated clothing before reuse. Preventative skin protection. Wash hands and face after work.

Respiratory protection

Breathing apparatus in the event of vapours. Gas filterAX.

Hand protection

Protective gloves

Appropriate Material	viton		
Material thickness		0.70	mm
Breakthrough time	>	120	min

Eye protection

necessary

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid

pH value

Remarks	not determined

Melting point

Remarks	not determined

Initial boiling point and boiling range

Value	40	to	64.5	°C
Pressure	1013	hPa		
Source	Estimated value			

Flash point

Value	°C
Method	ASTM D 56
Remarks	Not applicable

Evaporation rate

Remarks	not determined

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Remarks	not determined

Vapour pressure

Value	97.1		kPa
Temperature	37.8	°C	
Method	EN 13016-1		

Density

Value	1.20	to	1.30	g/ml

Solubility in water

Remarks	not determined

Solubility(ies)

Remarks	not determined

Ignition temperature

Remarks	not determined

Decomposition temperature

Remarks	not determined

Viscosity

Remarks	not determined

Explosive properties

evaluation	not determined

Oxidising properties

Remarks	not determined

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Risk of explosion with: Alkaline metals, Aluminium, NO2, Reaction with nitric acid. oxigen

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	1'745.17 94	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

Dichloromethane

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 401	

Dichloromethane

Species	Human	
LDLo	357	mg/kg
Source	RTECS	

Dichloromethane

Species	Rats (male/female)	
NOAEL	6	mg/kg
Duration of exposure	104 Weeks	

Methanol

Species	Human	
LDLo	143	mg/kg
Source	RTECS	

Acute dermal toxicity

ATE	3'661.21 55	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)

Dichloromethane

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	6.102	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)

Dichloromethane

Species	rat	
LC50	60.14	mg/l
Duration of exposure	4 h	
Administration/Form	Vapors	
Source	Literature value	

Dichloromethane

Species	Rats (male/female)	
NOAEL	0.71	mg/l
Duration of exposure	104 Weeks	
Method	OECD 453	

Methanol

Species	rat	
LC50	131.25	mg/l
Duration of exposure	4 h	

Administration/Form	Vapors
Source	ECHA

Skin corrosion/irritation (Components)

Dichloromethane

Species	rabbit
evaluation	irritant
Method	OECD 404
Remarks	Longer or repeated exposure with the product may cause dermatitis

Methanol

Species	rabbit
Remarks	No effect of irritation known.
Source	ECHA

Methanol

Remarks	Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

Serious eye damage/irritation (Components)

Dichloromethane

Species	rabbit
evaluation	irritant
Remarks	Risk of serious damage to eyes.

Sensitization (Components)

Dichloromethane

Species	mouse
evaluation	non-sensitizing
Method	OECD 429

Mutagenicity (Components)

Dichloromethane

Species	mouse
Remarks	negative

Dichloromethane

Species	mammal, species unspecified
evaluation	Information on genotoxicity in vitro available.
Method	OECD 473
Remarks	positive

Dichloromethane

Species	Salmonella typhimurium
evaluation	Information on genotoxicity in vitro available.
Method	OECD 471
Remarks	positive

Reproduction toxicity (Components)

Methanol

Species	Rats (male/female)
Dose	1.33 mg/l
evaluation	No negative effects
Source	Safety Data Sheet Supplier

Carcinogenicity (Components)

Dichloromethane

Remarks	Suspicion about carcinogenic effect.

Methanol

Remarks	negative on animals

Specific Target Organ Toxicity (STOT) (Components)

Dichloromethane

Single exposure

evaluation	May cause damage to organs. Route of exposure inhalative Organs: Nervous system

Dichloromethane

Repeated exposure

evaluation	May cause damage to organs. Route of exposure oral Organs: Liver

Dichloromethane

Repeated exposure

evaluation	May cause damage to organs. Route of exposure oral Organs: Kidneys

Methanol

Single exposure

evaluation	Causes damage to organs. Route of exposure oral Organs: Eyes
Species	Human

Methanol

	Route of exposure inhalative	
Species	rat	
NOAEL	0.13	mg/l
Duration of exposure	365	d
Method	OECD 453	
Source	Merck KGaA Safety Data Sheet	

Methanol

	Route of exposure inhalative	
Species	Rats (male/female)	
LOAEL	1.3	mg/l
Duration of exposure	365	d
Method	OECD 453	
Source	Merck KGaA Safety Data Sheet	

Experience in practice

After resorption of toxic quantities: disorders of the central nervous system. Liver damage is possible. Kidney damange is possible. Heart damange is possible.

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

Dichloromethane

Species	Fathead minnow (Pimephales promelas)	
LC50	193	mg/l
Duration of exposure	96	h

Methanol

Species	Bluegill (Lepomis macrochirus)		
LC50	15400		mg/l
Duration of exposure	96	h	
Source	(EPA 600/3-75/009)		

Daphnia toxicity (Components)

Dichloromethane

Species	Daphnia magna		
LC50	27		mg/l
Duration of exposure	48	h	

Methanol

Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	48	h	
Source	IUCLID		

Methanol

Species	Daphnia magna		
EC50	> 1000		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)

Dichloromethane

Species	Pseudokirchneriella subcapitata		
IC50	> 662		mg/l
Duration of exposure	96	h	
Method	OECD 201		

Methanol

Species	Pseudokirchneriella subcapitata		
EC50	22000		mg/l
Duration of exposure	96	h	
Method	OECD 201		
Source	Merck KGaA Safety Data Sheet		

Bacteria toxicity (Components)

Dichloromethane

Species	activated sludge		
EC50	2590		mg/l
Duration of exposure	40	min	
Method	OECD 209		

Methanol

Species	activated sludge		
IC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		
Source	Merck KGaA Safety Data Sheet		

12.2. Persistence and degradability

Biodegradability (Components)

Dichloromethane

Value	68		%
Duration of test	28	d	
Method	OECD 301D		
Remarks	The product is readily biodegradable according to OECD criteria.		

Ready degradability (Components)

Methanol

Value	99			%
Duration of test	30	d		
Method	OECD 301D			
Source	Merck KGaA Safety Data Sheet			

Methanol

Value	95			%
Duration of test	20	d		
Source	Safety Data Sheet Supplier			

Chemical oxygen demand (COD) (Components)

Methanol

Value	1.42	mg/g
Source	IUCLID	

Biochemical oxygen demand (BOD5) (Components)

Methanol

Value	600	to	1120	mg/g
Duration of test	5	d		
Source	IUCLID			

12.3. Bioaccumulative potential

Octanol/water partition coefficient (log Pow) (Components)

Dichloromethane

log Pow	1.25
Method	experimental

Methanol

log Pow	-0.77

12.4. Mobility in soil

Mobility in soil (Components)

Dichloromethane

Mobile in soils

12.5. Results of PBT and vPvB assessment

Evaluation of persistance and bioaccumulation potential (Components)

Dichloromethane

The Substance doesn't meets PBT/vPvB-criterions

Methanol

The Substance doesn't meets PBT/vPvB-criterions

12.6. Other adverse effects

General information / ecology

Do not allow it to reach soil, ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2810	2810	2810
14.2. UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)	TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)	TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	2		

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany)	WGK 2
Remarks	Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H370	Causes damage to organs.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Irrit. 2	Skin irritation, Category 2

STOT SE 1	Specific target organ toxicity - single exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.