# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Issue date: 09/03/2020 Revision date: 09/03/2020 Supersedes: 11/11/2016 Version: 1.1

SDS No: 12236-0001

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

#### 1.1. Product identifier

Product form : Mixture
Product name : F45

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Rinse aid

#### 1.2.2. Uses advised against

No additional information available

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

Imbach Chemie AG Pilatusstrasse 31 5630 Muri

T +41 56 664 06 16 - F +41 56 664 06 17 info@imbachchemie.ch - www.imbachchemie.ch

#### 1.4. Emergency telephone number

Emergency number : England & Wales: 111, Scotland: 111

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2

Skin corrosion/irritation, Category 2

H315

Carcinogenicity, Category 2

H351

Specific target organ toxicity — Single exposure, Category 3, Narcosis

Aspiration hazard, Category 1

H304

Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

Full text of H statements : see section 16

# Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of causing cancer. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :









GHS02

GHS08

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : Naphtha (petroleum), hydrotreated light; Dichloromethane

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Extra phrases : Restricted to professional users.

#### 2.3. Other hazards

No additional information available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dichloromethane	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (REACH-no) 01-2119487001-48	50 - 100	Carc. 2, H351
Naphtha (petroleum), hydrotreated light (Note P)	(CAS-No.) 64742-49-0 (EC-No.) 265-151-9 (EC Index-No.) 649-328-00-1 (REACH-no) 01-2119475515-33	25 - 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Take off immediately all contaminated clothing. In the event of persistent symptoms receive

medical treatment. Take affected person away from danger area.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. In case of loss of conscience place the victim in the recovery position.

First-aid measures after skin contact : Wash off immediately with soap and plenty of water. Treat subsequently with skin cream.

Get medical advice if skin irritation persists.

First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : Attention. Beware, danger of aspiration. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and

Symptoms/effects after skin contact : Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing

properties of the product.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : high volume water jet.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Hydrogen chloride. Carbon oxides (CO, CO2). Phosgene.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus.

Other information : Vapours are heavier than air and may spread along floors. The vapour/air mixture is

explosive, even in empty, uncleaned receptacles. Cool containers at risk with water spray

jet.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. Evacuate

unnecessary personnel. Wear personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Notify authorities if product enters sewers or public waters.

# 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents). Take up mechanically (sweeping, shovelling) and collect in suitable

container for disposal.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Take precautionary measures against static discharge. Explosion free apparatus have to be used. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Vapours are heavier than air and may spread along floors. Avoid formation of

aerosols.

Hygiene measures : Do not inhale vapour. Do not eat, drink or smoke when using this product. Always wash

hands after handling the product. Treat subsequently with skin cream. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to

explosion protection guidelines.

Incompatible products : Oxidizing agent.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

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#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Dichloromethane (75-09-2)		
EU - Occupational Exposure Limits		
Local name	Methylene chloride; Dichloromethane	
IOELV TWA (mg/m³)	353 mg/m³	
IOELV TWA (ppm)	100 ppm	
IOELV STEL (mg/m³)	706 mg/m³	
IOELV STEL (ppm)	200 ppm	
Notes	Skin	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
EU - Biological limit values		
Local name	Methylene chloride	
European BLV	4 % Parameter: COHb - Medium: Blood 0.3 mg/l Parameter: methylene chloride - Medium: urine 1 mg/l Parameter: methylene chloride - Medium: blood	
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs	
United Kingdom - Occupational Exposure Limits		
Local name	Dichloromethane	
WEL TWA (mg/m³)	353 mg/m³	
WEL TWA (ppm)	100 ppm	
WEL STEL (mg/m³)	706 mg/m³	
WEL STEL (ppm)	200 ppm	
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Dichlorometane	
United Kingdom (BEI)	30 ppm Parameter: carbon monoxide - Medium: end-tidal breath - Sampling time: Post shift	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

# 8.2. Exposure controls

# Appropriate engineering controls:

Ensure good ventilation of the work station. Pay attention to explosion protection guidelines.

#### Hand protection:

Protective gloves. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

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Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Neoprene	6 (> 480 minutes)	0,75		EN ISO 374, EN 388
Chemically resistant protective gloves	Polyvinylchloride (PVC)	6 (> 480 minutes)	1,3		EN ISO 374, EN 388

#### Eye protection:

Protective goggles (EN 166)

### Skin and body protection:

Solvent-resistant protective clothing

#### Respiratory protection:

Wear respiratory protection.

Device	Filter type	Condition	Standard
Breathing apparatus with filter		Short term exposure	
Self contained breathing apparatus		Long term exposure	

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Colourless. Clear. Odour characteristic. Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available

Boiling point : 39 °C : -25 °C Flash point

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Not applicable : 190 hPa (20°C) Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.01118 g/cm3 (20°C) Solubility : Water: Not miscible Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

Explosive properties : Product is not explosive. Flammable or explosive vapour/air mixtures may be formed.

Oxidising properties : Not self-igniting.

: 1 vol % Lower explosive limit (LEL) Upper explosive limit (UEL) : 22 vol %

# 9.2. Other information

VOC content : 100 % : > 95% Solvent content Ignition temperature : 250 °C

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# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

No data available.

#### 10.3. Possibility of hazardous reactions

alkali metals.

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Vapour/air-mixtures are explosive at intense warming. Heating can release vapours which can be ignited.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2). Phosgene. Hydrogen chloride.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

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#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Do not flush into surface water or sewer system

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: Do not discharge into drains.

: Should not be disposed of with household waste. Empty containers should be taken for local recycling, recovery or waste disposal. Packaging that cannot be cleaned should be

disposed of like the product.

European List of Waste (LoW) code

: 16 05 08\* - discarded organic chemicals consisting of or containing dangerous substances

# **SECTION 14: Transport information**

n accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1992	UN 1992	UN 1992	UN 1992	UN 1992
14.2. UN proper shippin	g name			
FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane)	FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane)	Flammable liquid, toxic, n.o.s. (Dichloromethane)	FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane)	FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane)
Transport document descr	iption			
UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane), 3 (6.1), II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane), 3 (6.1), II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1992 Flammable liquid, toxic, n.o.s. (Dichloromethane), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (Dichloromethane), 3 (6.1), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)			
3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)
6		6	6	
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	14.5. Environmental hazards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment : Yes
No supplementary information	No supplementary information available			

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#### 14.6. Special precautions for user

**Overland transport** 

Classification code (ADR) : FT1
Special provisions (ADR) : 274
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 336

Orange plates :

336 1992

Tunnel restriction code (ADR) : D/E
EAC code : •3WE
APP code : A(fl)

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Flammable toxic liquid which is not specified by name in this class or, on account of its

characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net quantity (IATA) 1L PCA packing instructions (IATA) 352 PCA max net quantity (IATA) 1L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 3HP

Inland waterway transport

Classification code (ADN) : FT1
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EP, EX, TOX, A

Ventilation (ADN) : VE01, VE02

Number of blue cones/lights (ADN) : 2

Rail transport

Classification code (RID): FT1Special provisions (RID): 274Limited quantities (RID): 1LExcepted quantities (RID): E2

Packing instructions (RID) : P001, IBC02

Transport category (RID) : 2
Hazard identification number (RID) : 336

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

The following res	The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable on	Entry title or description	
28.	F45	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	
40.	F45; Naphtha (petroleum), hydrotreated light	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	
59.	Dichloromethane	Dichloromethane	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 100 %

#### Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

### 15.1.2. National regulations

No additional information available

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	

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IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis	
H225	Highly flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H411	Toxic to aquatic life with long lasting effects.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	
Aquatic Chronic 2	H411	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.