Safety Data Sheet
TAB (2000) Liquid Fast

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : TAB (2000) Liquid Fast

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

Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Preparation intended for dental medical use

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
KERRHAWE S.A.
Via Strecce n°4
6934 Bioggio (Switzerland)
T 00-800-41-050-505

Manufacturer
Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311

Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. Emergency telephone number

Emergency number : CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
Gibraltar	GHA Call Centre Zone 2, Level3, St Bernard's Hospital	Harbour Views Road	+350 200 79700 +350 200 72266
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Flam. Liq. 2	H225
Acute Tox. 4 (Oral)	H302
Skin Irrit. 2	H315
Skin Sens. 1	H317
STOT SE 2	H371
STOT SE 3	H335

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07 GHS08

Signal word (CLP) : Danger

Hazardous ingredients : methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate; N,N-dimethyl-p-toluidine; ethylene dimethacrylate; methanol

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H371 - May cause damage to organs.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking.
P233 - Keep container tightly closed.
P260 - Do not breathe spray, vapours, mist, fume.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311 - IF exposed or concerned: Call a doctor, a POISON CENTER.
P302+P352 - IF ON SKIN: Wash with plenty of water/…
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use foam, carbon dioxide (CO2), dry extinguishing powder to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Extra phrases : The product is seen as a medical device and therefore not subject to labelling (EU-regulation 1272/2008, article 1, paragraph 5d).
A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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]
methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (Note D)	(CAS-No.) 80-62-6 (EC-No.) 201-297-1 (EC Index-No.) 607-035-00-6 (REACH-no) 01-2119452498-28	> 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	5 - 10	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
ethylene dimethacrylate (Note D)	(CAS-No.) 97-90-5 (EC-No.) 202-617-2 (EC Index-No.) 607-114-00-5	1 - 5	STOT SE 3, H335 Skin Sens. 1, H317
N,N-dimethyl-p-toluidine (Note C)	(CAS-No.) 99-97-8 (EC-No.) 202-805-4 (EC Index-No.) 612-056-00-9 (REACH-no) 01-2119956633-31	0.1 - 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits
methanol	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	(3 =<C < 10) STOT SE 2, H371 (C >= 10) STOT SE 1, H370
ethylene dimethacrylate	(CAS-No.) 97-90-5 (EC-No.) 202-617-2 (EC Index-No.) 607-114-00-5	(C >= 10) STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash immediately with lots of water (15 minutes)/shower. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Get medical advice/attention.

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : May cause eye irritation. redness, itching, tears.

Symptoms/effects after ingestion : Harmful if swallowed. May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea and vomiting. Abdominal pain.

Chronic symptoms : May cause damage to organs.

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

Not applicable.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. The vapours are denser than air and may travel along the ground. Distance ignition possible.

Explosion hazard : Vapours may form explosive mixture with air.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear appropriate personal protective equipment - see Section 8. Avoid contact with skin and eyes. Eliminate every possible source of ignition. Stop leak if safe to do so.

For non-emergency personnel

Emergency procedures : Keep upwind. Evacuate unnecessary personnel.

For emergency responders

No additional information available

6.2. Environmental precautions

Discharging into rivers and drains is forbidden. Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation. Non- sparking tools should be used.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

See Heading 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Prevent the build-up of electrostatic charge. Use only non-sparking tools. No open flames. No smoking. Avoid the formation of mists in the atmosphere.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use explosion-proof electrical equipment.

Storage conditions : Keep container tightly closed. Keep cool. Protect from moisture. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Take precautionary measures to prevent the formation of static electricity. Use non-sparking tools.

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (80-62-6)		
EU	Local name	Methyl methacrylate
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (ppm)	100 ppm
Ireland	Local name	Methyl methacrylate
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Ireland	OEL (15 min ref) (ppm)	50 ppm
Ireland	Notes (IE)	IOELV, Sens.
United Kingdom	Local name	Methyl methacrylate
United Kingdom	WEL TWA (mg/m³)	208 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	416 mg/m³
United Kingdom	WEL STEL (ppm)	100 ppm

methanol (67-56-1)		
EU	Local name	Methanol
EU	IOELV TWA (mg/m³)	260 mg/m³
EU	IOELV TWA (ppm)	200 ppm
EU	Notes	skin
Ireland	Local name	Methanol
Ireland	OEL (8 hours ref) (mg/m³)	260 mg/m³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	Notes (IE)	Sk, IOELV
Malta	Local name	Methanol
Malta	OEL TWA (mg/m³)	260 mg/m³
Malta	OEL TWA (ppm)	200 ppm
United Kingdom	Local name	Methanol
United Kingdom	WEL TWA (mg/m³)	266 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	333 mg/m³
United Kingdom	WEL STEL (ppm)	250 ppm
United Kingdom	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)

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Use spark-/explosionproof appliances and lighting system. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Gloves. Safety glasses. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

Hand protection	:	Butylrubber protective gloves. Neoprene rubber gloves. Layer thickness : 0,2 - 0,4 mm. Breakthrough time : 8 (> 480 minutes). STANDARD EN 374.
Eye protection	:	Safety glasses. STANDARD EN 166.
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Gas mask with filter type. A2. Standard EN 149.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Odour	:	characteristic.
Odour threshold	:	Not determined
pH	:	Not determined
Relative evaporation rate (butylacetate=1)	:	Product evaporates rapidly when in contact with the air
Melting point	:	Not determined
Freezing point	:	Not determined
Boiling point	:	Not determined
Flash point	:	10 °C
Auto-ignition temperature	:	Not determined
Decomposition temperature	:	Not determined
Flammability (solid, gas)	:	Highly flammable liquid and vapour.
Vapour pressure	:	Not determined
Relative vapour density at 20 °C	:	Not determined
Relative density	:	Not determined
Solubility	:	In water, material is partially soluble.
Log Pow	:	Not determined
Viscosity, kinematic	:	Not determined
Viscosity, dynamic	:	Not determined
Explosive properties	:	Product is not explosive.
Oxidising properties	:	Highly flammable liquid and vapour.
Explosive limits	:	Not determined

9.2. Other information

Additional information : None to our knowledge.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Keep away from heat and direct sunlight.

10.5. Incompatible materials

Strong acids and oxidants.

10.6. Hazardous decomposition products

In case of fire: Toxic fumes may be released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract
Ingestion may cause nausea and vomiting.
Abdominal pain

ATE CLP (oral)	909.091 mg/kg bodyweight

methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (80-62-6)	
LD50 oral rat	7872 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	78 mg/l/4h

ethylene dimethacrylate (97-90-5)	
LD50 oral rat	3300 mg/kg

Skin corrosion/irritation : Causes skin irritation.

pH: Not determined

Serious eye damage/irritation : Not classified

May cause eye irritation
Redness, pain
Lacrimation
Based on available data, the classification criteria are not met

pH: Not determined

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : May cause damage to organs. May cause respiratory irritation.

May cause shortness of breath, tightness of the chest, a sore throat and cough

STOT-repeated exposure : Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (80-62-6)	
LC50 fish 1	191 mg/l (96 hours - Lepomis macrochirus)
EC50 Daphnia 1	69 mg/l (48 hours - Daphnia magna)

N,N-dimethyl-p-toluidine (99-97-8)	
LC50 fish 1	46 mg/l (96 hours - Pimephales promelas)

12.2. Persistence and degradability

TAB (2000) Liquid Fast	
Persistence and degradability	Biodegradable.
Biodegradation	32 %

methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (80-62-6)	
Persistence and degradability	Not established.
Biodegradation	94 % (OECD 301C method)

methanol (67-56-1)	
BOD (% of ThOD)	0.4 - 0.8 % ThOD BOD5/COD
Biodegradation	99 % (OECD 301D method)

12.3. Bioaccumulative potential

TAB (2000) Liquid Fast	
Log Pow	Not determined
Bioaccumulative potential	Not potentially bioaccumulable.

methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate (80-62-6)	
Bioconcentration factor (BCF REACH)	3.5
Log Pow	1.38

N,N-dimethyl-p-toluidine (99-97-8)	
Bioconcentration factor (BCF REACH)	28.84
Log Pow	2.81

ethylene dimethacrylate (97-90-5)	
Log Pow	1.87

methanol (67-56-1)	
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.64

12.4. Mobility in soil

TAB (2000) Liquid Fast	
Ecology - soil	Adsorbs into the soil.

12.5. Results of PBT and vPvB assessment

TAB (2000) Liquid Fast
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : None to our knowledge.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not discharge into drains.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1993	1993	1993	1993	1993
14.2. UN proper shipping name				
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Transport document description				
UN 1993 FLAMMABLE LIQUID, N.O.S. (methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate ; N,N-dimethyl-p-toluidine ; ethylene dimethacrylate ; methanol), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (methyl methacrylate, methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate ; N,N-dimethyl-p-toluidine ; ethylene dimethacrylate ; methanol), 3, II			
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Special provisions (ADR) : 274, 601, 640D
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E2
Hazard identification number (Kemler No.) : 33
Orange plates :

EAC code : •3YE

- Transport by sea

Special provisions (IMDG) : 274
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
Special provisions (IATA) : A3

Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Indication of changes:

2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.2	Symptoms/effects after ingestion	Modified	
4.2	Symptoms/effects after eye contact	Added	
4.2	Symptoms/effects	Removed	
14.1	UN-No. (ADR)	Modified	
14.1	UN-No. (IMDG)	Modified	
14.1	UN-No. (IATA)	Modified	
14.1	UN-No. (ADN)	Modified	
14.2	Proper Shipping Name (ADN)	Modified	

14.2	Proper Shipping Name (ADR)	Modified	
14.6	Special provisions (ADR)	Added	
14.6	Special provisions (ADN)	Added	
14.6	Hazard identification number (Kemler No.)	Modified	

Date of issue : 27/05/2009
Revision date : 30/11/2017
Supersedes : 23/09/2015
Date of total revision : 30/11/2017
Version : 5.0
Signature : A. Åsebø Murel

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.