



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 1/12 -

Date of compilation/revision: 1. 11. 2019 version: 1.0 Replaces: -

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

1.1 Product identifier

Product name:	MC808 MAK CLEANEX
Registration number:	not required, the product is a mixture, not a compound
Other means of identification:	not set

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

Identified uses:	Food industrial degreaser/cleaner
Uses advised against:	not set

1.3 Details of the supplier of the safety data sheet

Distributor:	MAK CHEM International Ltd Ground Floor, The Old Brewery 2 Brewery Court High Street Theale RG7 5AH United Kingdom Tel: +44 (0) 7464 325169 / Email: sales@mak-global.org
--------------	---

Competent person responsible for the Safety Data Sheet: Gustav Vigato, Academical Team s.r.o.; Náměstí Přátelství 1518/2; 102 00, Praha - Hostivař;

1.4 Emergency telephone number

Toxicology Information Centre, Na Bojišti 1, Praha; Czech Republic; 24-h non-stop: +420-224919293 / +420-224915402.
Information only on health risks: acute intoxications of people / animals.

SECTION 2: HAZARDS IDENTIFICATION

General classification of the mixture: the mixture is classified as hazardous in compliance with Regulation (EC) No 1272/2008.

Important health effects:	Prolonged or repeated contact with unprotected skin can cause removal of natural fat from the skin resulting in dryness or even cracking, mild irritation and redness. Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects. Even small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. May be fatal if swallowed and enters airways. However, because of the aerosol pressure packages this way of exposure is not expected.
Important environmental effects:	The mixture is classified as hazardous for the environment. Harmful to aquatic life with long lasting effects. Contains petroleum distillates - the mixture spreads on the water surface - large amount of spilled mixture may limit oxygen supply to the water environment. The mixture is a source of volatile organic compounds and should not enter the environment outside the intended use.

2.1 Classification of the substance or mixture

Classification in accordance with 1272/2008/EC:	Aerosol 1 H222 H229 Asp. Tox. 1 H304	Aerosol, category 1 Extremely flammable aerosol. Pressurized container: May burst if heated. Aspiration hazard; category 1 May be fatal if swallowed and enters airways. (not used for aerosol pressure packages)
---	--	--

SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 2/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

		STOT SE 3 H336	Specific target organ toxicity — single exposure, category 3 May cause drowsiness or dizziness.
		Aquatic Chronic 3 H412	Hazardous to the aquatic environment, category 3 Harmful to aquatic life with long lasting effects.
2.2	Label elements		
	Contains:	hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
	Hazard pictograms:		
	Signal word:	DANGER	
	Hazard statements:	H222 H229 H336 H412	Extremely flammable aerosol. Pressurized container: May burst if heated. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.
	Supplemental hazard information:	EUH066	Repeated exposure may cause skin dryness or cracking
	Supplemental label elements for certain mixtures:	not required	
	Precautionary statements:	P210 P211 P251 P261 P273 P304+P340 P312 P410+P412 P501	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container to the hazardous waste collection point
	Other required labeling:	<u>Regulation (EC) No 648/2004 on detergents</u> aliphatic hydrocarbons > 30 %	
2.3	Other hazards		
	Results of PBT and vPvB assessment: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC.		
	Extremely flammable aerosol. Vapours gases are highly flammable and heavier than air. Vapours gases can travel across the ground and reach remote ignition sources, causing a flashback fire danger. Pressurized container: May burst if heated.		
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Mixture of organic solvents in pressurized aerosol packaging (propellant: carbon dioxide).			
3.1	Substances		
	does not apply		



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 3/12 -

Date of compilation/revision: 1. 11. 2019 version: 1.0 Replaces: -

3.2 Mixtures

Substances presenting a health or environmental hazard within the meaning of the Regulation (EC) No. 1272/2008, assigned a Community/national workplace exposure limit, classified as PBT/vPvB or included in the Candidate List:

Substance <i>REACH Registration number</i>	Content (% w/w)	EC Number CAS Number Index Number	Classification 1272/2008/EC*	Exposure limits	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics <i>REACH 01-2119471843-32-xxxx</i>	50 - 100	927-241-2 - -	Flam. Liq. 3 Asp. Tox. 1 STOT SE 3 Aquatic Chronic 3 -	H226 H304 H336 H412 EUH066	Exp. lim. (nat./CZ) see 8.1
1-Methoxy-2-propanol <i>REACH Nr. 02-2119752510-47-0000</i>	2.5 - 5	203-539-1 107-98-2 603-064-00-3	Flam. Liq. 3 STOT SE 3	H226 H336	Exp. limit (EU/nat.) see 8.1
Propellant					
Carbon dioxide <i>Exemptions from the obligation to register</i> **	2.5 - 5	204-696-9 124-38-9 -	Press. Gas	H280	Exp. limit (EU/nat.) see 8.1

* For full wording of used classification abbreviations and Hazard Statements (H-phrases) see Section 16.
** Exemptions from the obligation to register in accordance with Article 2(7)(a) Regulation EC No. 1907/2006 (REACH).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Observe all user considerations and safety measures stated on the packaging. In case of any unexpected accident, health problem or uncertainty seek medical attention and provide information from this Safety Data Sheet. Unconscious persons place in the stabilized position and observe the breathing. Never give any fluids to unconscious persons.

Inhalation:	In case of problems upon inhalation of vapours / aerosols remove affected person from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation and call immediately medical emergency.
Skin contact:	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water. Use appropriate regenerating cream. Seek medical advice if the skin irritation persists.
Eye contact:	Keep eyelids open and rinse immediately and repeatedly with copious amount of water for at least 10 - 15 minutes. Remove contact lenses, if present and easy to do. Seek medical advice if the eye irritation persists (preferably an ophthalmologist).
Ingestion:	As of aerosol packaging, ingestion is not expected. In rare cases of intended use rinse mouth with water and allow affected person to drink some water or milk (however, only if the person is conscious). Do not induce vomiting! In case of spontaneous vomiting avoid aspiration of the vomits. Immediately get medical attention and show this Safety Data Sheet or product label!

4.2 Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact with unprotected skin can cause removal of natural fat from the skin resulting in dryness or even cracking, mild irritation and redness. Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects. Even small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. May be fatal if swallowed and enters airways. However, because of the aerosol pressure packages this way of exposure is not expected.

4.3 Indication of any immediate medical attention and special treatment needed

No specific therapy known. Use supporting and symptomatic treatment. Caution is needed during vomiting or stomach lavage. Contains organic solvents / naphtha distillates: risk of serious lung damage/edema following aspiration of the fluid. Be aware of aspiration risk mainly following the ingestion and during vomiting. If the product is believed to have entered the lungs take the person to hospital for immediate care. Ensure medical observation at least 48 hour following the ingestion.



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 4/12 -

Date of compilation/revision

1. 11. 2019

version:

1.0

Replaces:

-

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, alcohol resistant foam, dry-powder, carbon dioxide or other extinguishing gases

Unsuitable extinguishing media: direct water stream, may spread the fire

5.2 Special hazards arising from the substance or mixture

Pressurized container: May burst if heated. Extremely flammable aerosol. Vapours / propellant gases are highly flammable and heavier than air. Vapours / propellant gases can travel across the ground and reach remote ignition sources, causing a flashback fire danger. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds decomposition). Do not inhale smokes.

5.3 Advice for fire-fighters

Fire-fighters should always use standard protective equipment, helmets and in enclosed spaces, self-contained breathing apparatus (SCBA) - risk of irritating, toxic or flammable decomposition products. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray to cool fire exposed surfaces and to protect personnel. If possible, try to move the containers from the fire vicinity. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Observe all user considerations and safety measures. Avoid contact with skin, eyes and mucous membranes. All unprotected persons should be restraint. See Section 8 for advice on the minimum requirements for personal protective equipment. Ensure adequate ventilation in closed areas. Do not inhale vapors / aerosols - use appropriate mask with filter against organic gases. Remove all sources of ignition (also all sources of static electric discharges). Use only spark-proof equipment. Do not manipulate with fire, objects with high temperature and flammable materials. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

6.2 Environmental precautions

Stop leak if you can do so without risk. Avoid entering soil, surface- and ground-waters, drains, cellars or other closed rooms. For aquatic environments: use appropriate floating barrages and adsorbents. In case of serious leakage inform appropriate authorities responsible for environmental protection.

6.3 Methods and materials for containment and cleaning up

Collect mechanically and soak up the rests with inert absorbent material (sand, diatomite, kaolin, vapex...); put in appropriately labeled containers with a lid. Ensure thorough ventilation of propellant gases and vapors. Remove all sources of ignition (also all sources of static electric discharges). Use only spark-proof equipment. Do not manipulate with fire, objects with high temperature and flammable materials. Dispose according to valid legislation; send to wastes treatment facility. See Section 13 for appropriate procedures. Wash all areas with large amount of water and appropriate detergent. Contaminated water should not enter drains, surface- and ground-waters, dispose as dangerous waste.

6.4 Reference to other sections

Adhere to instructions in the section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe all user considerations, safety measures and exposure limits. Avoid contact with skin, eyes and mucous membranes. See Section 8 for advice on the minimum requirements for personal protective equipment. Manipulate carefully to avoid accidental leak. Do not eat, drink or smoke when manipulating with the product. Use only with adequate ventilation. Remove all sources of ignition, do not manipulate in proximity of fire, objects with high temperature and flammable materials.

Do not spray on an open flame or other ignition source. Empty containers may contain flammable or explosive vapours - do not cut / drill. Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Open drum carefully as content may be under pressure. Keep away from heat/sparks/open flames/hot



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 5/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

surfaces. No smoking. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities
Store in tightly closed original and appropriately labeled packages. Store in dry, banded, spaces protected from weather conditions. Ensure appropriate ventilation at the floor level. Keep away from direct sunlight and, heat sources and ignition sources. Recommended storage temperature 5 - 50°C. Do not smoke in storage facility. Keep away from food, beverages and forage. Keep out of the reach of children. Keep away from strong acid/bases and oxidative compounds.
Containers under constant pressure! Can explode when heated. Do not expose to temperatures exceeding 50°C/ 122°F.

7.3 Specific end uses
not specified

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits (Czech Republic, Government Regulation No. 361/2007 Coll.):

CAS	Substance name	NPEL
-	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics <i>as: white spirit</i>	PEL: 400 mg.m ⁻³ NPEL-P: 1000 mg.m ⁻³
107-98-2	1-Methoxypropan-2-ol	PEL: 270 mg.m ⁻³ NPEL-P: 550 mg.m ⁻³ <i>Note D: exposure is importantly enhanced through skin penetration</i>
124-38-9	Carbon dioxide	PEL: 9000 mg.m ⁻³ NPEL-P: 45000 mg.m ⁻³

Indicative biological limits (Czech Republic, Government Regulation No. 432/2003 Sb., Annex 2): not set

Indicative occupational exposure limit ES (Directives 2000/39/EC, 2006/15/EC, 2009/161/EC and 2017/164/EC):

CAS	Substance name	IOEL
124-38-9	Carbon dioxide	IOEL mean (8 h): 9000 mg.m ⁻³ / 5000 ppm IOEL short (15 min): -
107-98-2	1-Methoxypropan-2-ol	IOEL mean (8 h): 100 ppm / 375 mg.m ⁻³ IOEL short (15 min): 150 ppm / 568 mg.m ⁻³ <i>Note: skin</i>

Other recommended values: not set

CAS	Substance name	OEL - equivalents
-	-	-

DNEL: not set for the mixture. Compounds:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Workers / Professional users

inhalation, chronic exposure, systemic effects: 871 mg/m³

dermal, chronic exposure, systemic effects: 208 mg/kg

Consumers / General population

-

1-Methoxy-2-propanol

Workers / Professional users

inhalation, chronic exposure, systemic effects: 369 mg/m³

inhalation, acute exposure, local effects: 553.5 mg/m³



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 6/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

dermal, chronic exposure, systemic effects: 50.6 mg/kg

Consumers / General population

inhalation, chronic exposure, systemic effects: 43.9 mg/m³

dermal, chronic exposure, systemic effects: 18.1 mg/kg

oral, chronic exposure, systemic effects: 3.3 mg/kg

PNEC: not set for the mixture. Compounds:

1-Methoxy-2-propanol

freshwater 10 mg/l

marine water 1 mg/l

water - intermittent release 100 mg/l

Sediment, freshwater 41.6 mg/kg

Sediment, marine water 4.17 mg/kg

soil 2.47 mg/kg

sewage treatment plant 100 mg/l

8.2 Exposure controls

Appropriate engineering controls:

Avoid contact with skin, eyes and mucous membranes. Ensure adequate ventilation. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Individual protection measures, such as personal protective equipment:

a) Eye / face protection

Avoid contact with eyes. If specific usage involves possibility of eye contact (filling, emergency procedures), use of safety glasses with side shields (EN 166) is recommended.

b) Skin protection:

Always use chemical-resistant (against petroleum distillates) protective gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. CEN standards EN 420 and EN 374 provide general requirements and lists of glove types. Recommended material: fluorinated rubber, nitril-, butyl-rubber, PVC > 0.35 mm. Breakthrough time should be at least the expected contact time. Because of the lack of specific tests, the breakthrough time should be twice the expected contact time. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Do not wear rings, watches or other items that should retain the mixture on the skin.

Note: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Inspect and immediately replace worn or damaged gloves.

c) Respiratory protection:

Avoid vapours / aerosols inhalation. If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: half-face filter respirator, type A/P2 filter (European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 (STN EN 14387+A1) provide filter recommendations).

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapours warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

d) Thermal hazards:

Containers under constant pressure! Can explode when heated.

Environmental exposure controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 7/12 -

Date of compilation/revision: 1. 11. 2019 version: 1.0 Replaces: -

by applying appropriate control measures to prevent or limit emissions. All storage and manipulation areas have to be equipped for the sanitation of possible leakage. See information in sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Properties	value	method / condition
Appearance:	liquid / aerosol	20°C
Colour:	colourless	-
Odour:	characteristic - naphtha	-
Odour threshold:	information not available	-
pH:	information not available	-
Melting point/freezing point:	information not available	-
Initial boiling point and boiling range:	information not available	-
Flash point:	23°C (liquid)	-
Evaporation rate:	information not available	-
Flammability (solid, gas)	information not available	-
Upper/lower flammability or explosive limits:	lower: 0.7 % vol. upper: 7.0 % vol.	-
Vapour pressure:	4,2hPa	20°C
Vapour density:	> 1 (relative, air = 1)	-
Relative density:	0.721 g/cm ³	-
Solubility/ies:	insoluble in water soluble in non-polar solvents	water, 20°C
Partition coefficient: n-octanol/water:	information not available	-
Auto-ignition temperature:	> 230°C	-
Decomposition temperature:	information not available	-
Viscosity:	information not available	-
Explosive properties:	the mixture itself is not explosive	-
Oxidising properties:	no oxidative properties	-

9.2 Other information

-

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal conditions of storage and use.

10.2 Chemical stability

Mixture is chemically stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Stable under normal conditions. Keep away from direct sunlight, heat sources and ignition sources. Do not smoke. Take precautionary measures against static discharges. Use proper bonding and/or earthing procedures when manipulating larger amounts. Pressurized container: protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 8/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

10.5 Incompatible materials	Strong oxidative compounds, strong acids / bases.
10.6 Hazardous decomposition products	Material does not decompose at ambient temperatures. Incomplete combustion and thermolysis may produce toxic, irritating and flammable decomposition products (such as carbon monoxide, carbon dioxide, sooth, aldehydes and other products of organic compounds decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
a) <i>Acute toxicity</i>	Based on available data, the classification criteria are not met. No toxicology data for the complete mixture. The classification is based on compounds properties. Compounds: <u>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics</u> LD50, oral, rat: > 5000 mg/kg LD50, dermal, rat: > 5000 mg/kg LC50, inhalation, rat: > 4951 mg/m ³ (8 h) <u>1-Methoxy-2-propanol</u> LD50, oral, rat: 3500 mg/kg LD50, dermal, rat: 13000 mg/kg LC50, inhalation, rat: 54.6 mg/l (4 h)
b) <i>Skin corrosion/irritation</i>	Based on available data, the classification criteria are not met. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. However, these effects are not a reason for the classification.
c) <i>Serious eye damage/irritation</i>	Based on available data, the classification criteria are not met. Direct contact with eyes may cause transitional eye irritation. However, these effects are not a reason for the classification.
d) <i>Respiratory or skin sensitisation</i>	Based on available data, the classification criteria are not met. Compounds have no sensitizing potential.
e) <i>Germ cell mutagenicity</i>	Based on available data, the classification criteria are not met. Compounds have no potential for mutagenicity.
f) <i>Carcinogenicity</i>	Based on available data, the classification criteria are not met. Compounds have no potential for carcinogenicity.
g) <i>Reproductive toxicity</i>	Based on available data, the classification criteria are not met. Compounds have no potential for reproductive toxicity.
h) <i>STOT-single exposure</i>	May cause drowsiness or dizziness. Inhalation of vapours and aerosols in high concentration can cause airways irritation, head-ache, sleepiness, dizziness and even narcotic effects.
i) <i>STOT-repeated exposure</i>	Based on available data, the classification criteria are not met.
j) <i>Aspiration hazard</i>	For the liquid content: May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. However, because of the aerosol pressure packages this way of exposure is not expected and the classification is not required.

SECTION 12: ECOLOGICAL INFORMATION

The mixture is classified as hazardous for the environment. Harmful to aquatic life with long lasting effects. Contains petroleum distillates - the mixture spreads on the water surface - large amount of spilled mixture may limit oxygen supply to the water environment. The mixture is a source of volatile organic compounds and should not enter the environment outside the intended use.



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 9/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

12.1 Toxicity	<p>No experimental data for the mixture. Based on the composition and calculation method of classification the mixture is not classified as hazardous for the environment.</p> <p>Components:</p> <p><u>hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics</u></p> <p>LC50, fish, 96 h: 10 - 30 mg/l (<i>Oncorhynchus mykiss</i>) EC50, aquatic crustaceans, 48 h: 22 - 46 mg/l (<i>Daphnia magna</i>) EL50, algae, 48 h: > 1000 mg/l (<i>Pseudokirchneriella subcapitata</i>)</p> <p><u>1-Methoxy-2-propanol</u></p> <p>LC50, fish, 96 h: > 6800 mg/l (<i>Leuciscus idus</i>) EC50, crustaceans, 48 h: 23 300 mg/l (<i>Daphnia sp.</i>) EC50, algae, 7 d: > 1000 mg/l (<i>Pseudokirchneriella subcapitata</i>)</p>
12.2 Persistence and degradability	<p>No data for the mixture. Propellants and solvents (hydrocarbons) readily evaporate and mix with atmosphere. Fast oxidation and photodegradation is expected. Other components are biodegradable.</p>
12.3 Bioaccumulative potential	<p>No data for the mixture. Components have only low bioaccumulative potential.</p>
12.4 Mobility in soil	<p>No data for the mixture.</p>
12.5 Results of PBT and vPvB assessment	<p>The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII; the substances in the mixture are not included in the Candidate List of SVHC</p>
12.6 Other adverse effects	<p>Not known.</p>

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	<p>Dispose according to valid legislation; send to approved wastes treatment facility. Dispose in accordance with the valid European and national waste legislation.</p> <p><u>Product disposal</u></p> <p>Avoid entering soil, drains, surface- and ground-waters. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use.</p> <p><u>Proposed waste classification, based on common use:</u></p> <p><i>Complete product</i></p> <p>16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST 16 05 gases in pressure containers and discarded chemicals 16 05 04 gases in pressure containers (including halons) containing dangerous substances Hazardous waste: yes</p> <p><i>Liquid content only:</i></p> <p>14 Waste Organic Solvents, Refrigerants and Propellants (except 07 and 08) 14 06 waste organic solvents, refrigerants and foam/aerosol propellants 14 06 03* other solvents and solvent mixtures Hazardous waste: yes</p> <p><u>Contaminated packages:</u></p> <p>Always empty the pressurized container. Do not pierce or burn, even after use. Do not dispose as a common household waste. Dispose in a certified hazardous waste facility. According to the European Waste Catalogue waste codes are not specific for product, but for its use. Therefore, appropriate waste code should assign final user according to his specific use. Emptied packages can be recycled.</p>
-------------------------------------	---

SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 10/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

Proposed waste classification, based on common use:

Packages containing rests

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 packaging (including separately collected municipal packaging waste)

15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Hazardous waste: yes

Completely empty packages

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 packaging (including separately collected municipal packaging waste)

15 01 04 metallic packaging





Hazardous waste: no

Empty Container Warning

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

SECTION 14: TRANSPORT INFORMATION

The mixture is classified as dangerous for transport according to ADR/RID/IMDG/ICAO/IATA.

14.1	UN Number: UN 1950			
14.2	UN proper shipping name			
	<i>Road transport ADR</i>	<i>Rail transport RID</i>	<i>International maritime transport IMDG</i>	<i>Air transport ICAO/IATA</i>
	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
14.3	Transport hazard class(es)			
	<i>Road transport ADR</i>	<i>Rail transport RID</i>	<i>International maritime transport IMDG</i>	<i>Air transport ICAO/IATA</i>
	2	2	2	2
	Classification code			
	5F	5F	5F	5F
	Hazard identification number (Kemler)			
	-	-	-	-
	Labels			
				
	Other remarks			
	Limited quantities: E0 (1 1) / LQ2 Tunnel restriction code: D Transport category: 2	Limited quantities: E0 (1 1) / LQ2 Tunnel restriction code: D Transport category: 2	EMS: F-D, S-U Marine pollutant: yes	-



SAFETY DATA SHEET

according Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP)
and Commission Regulation EU No. 2015/830

MC808 MAK CLEANEX

Page:
- 12/12 -

Date of compilation/revision	1. 11. 2019	version:	1.0	Replaces:	-
------------------------------	-------------	----------	-----	-----------	---

Asp. Tox. 1 STOT SE 3 Aquatic Chronic 3 Exp. lim. NPEL PEL NPEL-P OEL ACGIH PBT vPvB VOC DNEL PNEC LD50 LC50 EC50 IC50 ADR RID IMDG ICAO IATA	Aspiration hazard; category 1 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment; category 3 Exposure limit The highest permissible exposure limit (<i>Slovak Republic</i>) Permissible exposure limit (short-term) (<i>Czech Republic</i>) The highest permissible exposure limit (long-term) (<i>Czech Republic</i>) Occupational exposure limit American Conference of Industrial Hygienists Substances persistent, bioaccumulative and toxic Substances very persistent and very bioaccumulative Volatile organic compound Derived No Effect Level Predicted No Effect Concentration Median lethal Dose Median lethal concentration Half maximal effective concentration Half maximal inhibitory concentration European Agreement concerning the International Carriage of Dangerous Goods by Road International Rule for Transport of Dangerous Substances by Railway International Maritime Dangerous Goods Code International Civil Aviation Organization International Air Transport Association
c)	<i>Key literature references and sources for data</i> Original composition from the manufacturer and Safety data sheets of used compounds.
d)	<i>Methods of evaluating information used for the purpose of classification</i> The mixture was classified by expert judgment and conventional calculations methods in accordance with the Regulation EC No. 1272/2008 (CLP).
e)	<i>Full wording of used Hazard Statements (H-phrases)</i> H280 Contains gas under pressure; may explode if heated. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways H336 May cause drowsiness or dizziness H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking
f)	<i>Advice on any training appropriate for workers</i> Not applicable for consumer. Before handling, storing or using the present substance for the first time, employees must be informed - common occupational safety training. SAFETY DATA SHEET should always be available at hand.
g)	<i>Other information</i> This Safety Data Sheet is compiled in accordance with the Regulation EC No. 1907/2006 (REACH), Regulation EC No. 1272/2008 (CLP) and Commission Regulation EU No. 2015/830; and contains information on safety use, occupational health protection, and environmental protection. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. This particular information applies on the product as supplied and may not be valid in mixtures with other substances. If used for other purposes as identified in this SDS, the distributor is not liable for any damage. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.