

Safety data sheet

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



version number V 1.0
date of compilation 10.04.2026

GB

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

1.1 product identifier

trade name: GEKA 85W-90 *
article number: 63164

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

relevant identified uses
Lubricating oil
PROFESSIONAL, INDUSTRIAL, CONSUMER

1.3 details of the supplier of the safety data sheet

KALTENBACH GMBH & CO. KG
BLASIRING 4
79539 LÖRRACH

Telephone +49 - 7621 - 175 - 323
e-mail (competent person) M.GUENTERT@KALTENBACH.DE

1.4 emergency telephone number

Only available: Mo-Fri 8 am until 4 pm

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling (acc. to GB CLP)

- Signal word not required

- Pictograms not required

- Hazard statements

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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P273 Avoid release to the environment.
P501 Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Hazardous ingredients acc. to GHS				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
Residual oils (petroleum), hydrotreated	CAS No 64742-57-0 EC No 265-160-8 Index No 649-470-00-4	50 – < 75	Carc. 1B / H350	L(a)
Residual oils (petroleum), solvent-dewaxed	CAS No 64742-62-7 EC No 265-166-0 Index No 649-471-00-X	25 – < 50	Carc. 1B / H350	L(a)
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS No 1213789-63-9 EC No 627-034-4	< 1	Acute Tox. 4 / H302 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Distillates (petroleum), hydrotreated heavy paraffinic	CAS No 64742-54-7 EC No 265-157-1 Index No 649-467-00-8	< 1	Acute Tox. 4 / H332 Carc. 1B / H350	L(a)

Notes

L(a): The classification as a carcinogen is mandatory. The substance contains at least 3 % DMSO extract

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	-	M-factor (acute) = 10 M-factor (chronic) = 10	1,689 mg/kg	oral

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Distillates (petroleum), hydrotreated heavy paraffinic	-	-	11 mg//4h 2.18 mg//4h	inhalation: vapour inhalation: dust/mist
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Remarks

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Fire extinguishing powder, Carbon dioxide (CO₂), Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

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For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

No special measures are necessary. No hazardous reaction when handled and stored according to provisions.

Protect against external exposure, such as

Heat, Frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Residual oils (petroleum), hydrotreated	64742-57-0	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

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Residual oils (petroleum), hydrotreated	64742-57-0	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Residual oils (petroleum), hydrotreated	64742-57-0	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Residual oils (petroleum), solvent-dewaxed	64742-62-7	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Residual oils (petroleum), solvent-dewaxed	64742-62-7	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Residual oils (petroleum), solvent-dewaxed	64742-62-7	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	0.38 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	DNEL	2.73 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	DNEL	5.58 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	DNEL	0.97 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Remarks

The product is not intended for consumer use.

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	0.26 µg/l	aquatic organisms	freshwater	short-term (single instance)
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)	1213789-63-9	PNEC	0.026 µg/l	aquatic organisms	marine water	short-term (single instance)

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unsaturated)-alkylamines						
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	550 ^{mg/l}	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	3.76 ^{mg/kg}	aquatic organisms	freshwater sediment	short-term (single instance)
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	0.376 ^{mg/kg}	aquatic organisms	marine sediment	short-term (single instance)
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	PNEC	10 ^{mg/kg}	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

No special handling advices are necessary.

Individual protection measures (personal protective equipment)

Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material (long-term)

NBR: acrylonitrile-butadiene rubber (0,425 mm), Breakthrough times of the glove material: 240-480 min

- Type of material (short-term)

NBR: acrylonitrile-butadiene rubber (0,12 mm), Breakthrough times of the glove material: 10-30 min

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

not required

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

physical state	liquid
colour	yellowish brown
odour	characteristic
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined
flammability	this material is combustible, but will not ignite readily
flash point	>180 °C
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	189 mm ² /s at 40 °C
Solubility(ies)	
water solubility	insoluble
Partition coefficient	
partition coefficient n-octanol/water (log value)	this information is not available
vapour pressure	not determined
Density and/or relative density	
density	not determined
relative vapour density	information on this property is not available
particle characteristics	not relevant (liquid)

9.2 Other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

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Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

The classification criteria for these hazard classes are not met.

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Residual oils (petroleum), hydrotreated	64742-57-0	oral	LD50	>5,000 mg/kg	rat
Residual oils (petroleum), hydrotreated	64742-57-0	inhalation: dust/mist	LC50	>5.3 mg//4h	rat
Residual oils (petroleum), hydrotreated	64742-57-0	dermal	LD50	>5,000 mg/kg	rabbit
Residual oils (petroleum), solvent-dewaxed	64742-62-7	oral	LD50	>5,000 mg/kg	rat
Residual oils (petroleum), solvent-dewaxed	64742-62-7	dermal	LD50	>5,000 mg/kg	rabbit
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	oral	LD50	1,689 mg/kg	rat
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	dermal	LD50	>2,000 mg/kg	rat
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	oral	LD50	>5,000 mg/kg	rat
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	inhalation: dust/mist	LC50	2.18 mg//4h	rat
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	dermal	LD50	>5,000 mg/kg	rabbit

Skin corrosion/irritation

The classification criteria for this hazard class are not met.

Serious eye damage/eye irritation

The classification criteria for this hazard class are not met.

Respiratory or skin sensitisation

The classification criteria for these hazard classes are not met.

Germ cell mutagenicity

The classification criteria for this hazard class are not met.

Carcinogenicity

The classification criteria for this hazard class are not met.

Reproductive toxicity

The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met.

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Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

Aspiration hazard

The classification criteria for this hazard class are not met.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Residual oils (petroleum), hydrotreated	64742-57-0	EL50	>1,000 mg/l	daphnia magna	14 d
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	EC50	0.27 mg/l	daphnia magna	21 d

12.2 Persistence and degradability

Data are not available.

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Residual oils (petroleum), hydrotreated	64742-57-0	oxygen depletion	31 %	28 d		ECHA Chem
Residual oils (petroleum), hydrotreated	64742-57-0	carbon dioxide generation	2 – 4 %	28 d		ECHA Chem
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	oxygen depletion	17 %	5 d		ECHA Chem
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9	carbon dioxide generation	66 %	28 d		ECHA Chem

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

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Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Waste code (EU)

- Product

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- 14.1 UN number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Maritime transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of	Notes
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		lower and upper-tier requirements	
	not assigned		

Industrial Emissions Directive (IED)

VOC content 0 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
Product	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3

International conventions

UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

none of the ingredients are listed

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the

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	International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

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The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.