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

Trade name :	UNIVERSAL HARD OIL Art. No.: 2044		
Revision date :	27.02.2024	**Version (Revision) :**	2.0.2 (2.0.1)
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

UNIVERSAL HARD OIL
Art. No.: 2044

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

Relevant identified uses

Product Categories [PC] Coatings and paints, fillers, putties, thinners
Recommended restrictions for use: none, when applied according to instructions

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

BIOFA Naturprodukte W.Hahn GmbH

Street : Dobelstr.22

Postal code/city : D-73087 Bad Boll

Telephone : +49 (0) 7164-9405-0

Telefax : +49 (0) 7164-9405-94

Information contact :

Respondent department: product safety department
Contact: Dr. Jonathan Selzer
E-mail address of the competent person responsible for the SDS: j.selzer@biofa.de

Swiss Importer: Thymos AG
CH-5600 Lenzburg, Niederlenzer Kirchweg 1
Telephone: 0041(0)628924444
Telefax: 0041(0)628924465
E-Mail: info@thymos.ch

Korean Importer: Biopaints
#240-5 Sinchon-ri,Silchoneup
464-874 Gyeonggi-Do
South Korea
Telephone: 00082-31-768-2115
E-Mail: swlee@biopaints.co.kr

1.4 Emergency telephone number

During office hours 7:30 to 16:30: +49 (0) 7164-9405-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard statements

H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.

P103	Read label before use.
P101	If medical advice is needed, have product container or label at hand.
P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P501	Dispose of contents/container in accordance with local/national regulations

Special rules for supplemental label elements for certain mixtures

EUH210	Safety data sheet available on request.

2.3 Other hazards

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

Results of PBT and vPvB assessment: Not applicable.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Environmental information: The substance/mixture does not contain components that are endocrine disruptors according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU)2018/605 in quantities of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

3.2 Mixtures

Hazardous ingredients

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; EC No. : 918-481-9; CAS No. : 64742-48-9 ; REACH registration No. : 01-2119457273-39

Weight fraction :	≥ 45 - < 50 %
Classification 1272/2008 [CLP] :	Asp. Tox. 1 ; H304

NAPHTA (PETROLEUM), HYDROTREATED HEAVY, Hydrocarbons C11-C14 n-alkane, iso-alkane, cyclo-alkane, < 2% aromatic carbons, < 0,1% benzene ; EC No. : 926-141-6; CAS No. : 64742-47-8 ; REACH registration No. : 01-2119456620-43

Weight fraction :	≥ 5 - < 10 %
Classification 1272/2008 [CLP] :	Asp. Tox. 1 ; H304

ZINC OXIDE ; EC No. : 215-222-5; CAS No. : 1314-13-2 ; REACH registration No. : 01-2119463881-32

Weight fraction :	≥ 1 - < 2,5 %
Classification 1272/2008 [CLP] :	Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 First aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Immediately remove all contaminated clothing.

Following inhalation

Remove affected person to fresh air and keep warm and at rest. In case of accident or illness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration. If unconscious place in side recovery position and seek medical advice.

Skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

Eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

Ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO2) Water spray Extinguishing powder

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard. " In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

5.3 Advice for firefighters

Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow to enter drains or the environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Avoid inhalation of vapours. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For clean up

Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Only use in places in proximity to open lights, sparks, fire and other flammable sources. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use grounding leads when transferring from one container to another. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Do not eat, drink, smoke, inhale vapors while using. Wear personal

protection equipment (refer to section 8).
Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations.
Do not allow to enter into environment or drains.

Protective measures

Fire prevention

Vapors are heavier than air, spread along floors and can form explosive mixtures with air. Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously within a few hours. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage and incompatibilities

Store in accordance with local regulations.

Criteria for common storage

Keep away from Alkali (lye). Acid Oxidizing agent

Storage class : 10

Storage class (TRGS 510) : 10

Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place. Protect against Heat. Frost Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition - No smoking. Only allow access to authorised staff.

7.3 Specific end use(s)

Oil for wood, cork and linoleum surfaces indoors.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 600 mg/cm^3
Version :

NAPHTA (PETROLEUM), HYDROTREATED HEAVY, Hydrocarbons C11-C14 n-alkane, iso-alkane, cyclo-alkane, < 2% aromatic carbons, < 0,1% benzene ; CAS No. : 64742-47-8

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1200 mg/cm^3
Version :

8.2 Exposure controls

Appropriate technical controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation or good general extraction. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Select personal protective equipment appropriate for the specific workplace, concentration and quantity of hazardous substances.

Eye/face protection

Suitable eye protection : Eye glasses with side protection

Skin protection

After cleaning, apply hand cream.

Hand protection

Tested protective gloves must be worn DIN EN 374
Take durability and leach through times of the material into consideration and change gloves as needed. Examples below:

By long-term hand contact Suitable material : Butyl latex (butylene rubber)
Thickness of the glove material : 0,7 mm
Leach through time (maximum wearing time) : > 480 min.

By short-term hand contact Suitable material : NBR (Nitrile rubber)
Thickness of the glove material : 0,4 mm
Leach through time (maximum wearing time) : > 120 min.

Body protection

Personnel should wear impermeable and antistatic protective work clothing.
Recommended material: Natural fibers (e.g. cotton), heat-resistant synthetic fibres

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values , insufficient ventilation insufficient exhaust prolonged exposure aerosol or mist formation.

Suitable respiratory protection device:
Combination filtering device (EN 14387) , Particle filter device (DIN EN 143).
Self-contained respirator (breathing apparatus) (DIN EN 133)

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m3 (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)
Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. 15 times the exposure limit. P3 filter: up to a max. of

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid:

Colour : Slight-brownish.

Odour

smells like solvents

Odour threshold

Not determined

Safety relevant basis data

Melting point/melting range :			No data available		
Initial boiling point and boiling range :	(1013 hPa)	>	180	°C	
Decomposition temperature :			No data available		
Flash point :		>	65	°C	DIN EN ISO 1523
Ignition temperature :		>	200	°C	
Lower explosion limit :		approx.	0,6	Vol-%	
Upper explosion limit :		approx.	7	Vol-%	
Vapour pressure :	(50 °C)	approx.	4	hPa	
Density :	(20 °C)		0,895 - 0,905	g/cm³	DIN 53217

Solvent separation test :	(20 °C)		not determined		
Water solubility :	(20 °C)		insoluble		
pH :			not applicable		
Flow time:	(20 °C)		65 - 80	s	DIN-Cup 3mm
Flow time :	(20 °C)	>	30	s	DIN-cup 4 mm
Viscosity :	(20 °C)	>	100	mPa.s	Brookfield
Cinematic viscosity :	(40 °C)	>	21	mm^2/s	
Solid content :			45 - 50	Wt %	
Solvent content :			50 - 55	Wt %	
Maximum VOC content (EC) :			50 - 55	Wt %	
Maximum VOC content (Switzerland) :			50 - 55	Wt %	

Self-ignition: Product is not self-igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Relative density: Not determined
Vapour density: Not determined
Evaporation rate: Not determined
N-octanol-water partition coefficient: Not determined

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability

Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously within hours. To avoid the risks of fires, place all contaminated materials in a closed metal container soaked with water.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials

Alkali (lye). Acid Oxidizing agent.

10.6 Hazardous decomposition products

By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (NAPHTA (PETROLEUM), HYDROTREATED HEAVY, Hydrocarbons C11-C14 n-alkane, iso-alkane, cyclo-alkane, < 2% aromatic carbons, < 0,1% benzene ; CAS No. : 64742-47-8)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (ZINC OXIDE ; CAS No. : 1314-13-2)

Exposure route : Oral
Species : Rat
Effective dose : 7950 mg/kg

Acute dermal toxicity

Parameter : LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg
Parameter : LD50 (NAPHTA (PETROLEUM), HYDROTREATED HEAVY, Hydrocarbons C11-C14 n-alkane, iso-alkane, cyclo-alkane, < 2% aromatic carbons, < 0,1% benzene ; CAS No. : 64742-47-8)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Exposure route : Inhalation
Species : Rat
Effective dose : > 49510 mg/m^3
Exposure time : 4 h
Parameter : LC50 (NAPHTA (PETROLEUM), HYDROTREATED HEAVY, Hydrocarbons C11-C14 n-alkane, iso-alkane, cyclo-alkane, < 2% aromatic carbons, < 0,1% benzene ; CAS No. : 64742-47-8)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5000 mg/m^3
Parameter : LC50 (ZINC OXIDE ; CAS No. : 1314-13-2)
Exposure route : Inhalation
Species : Mouse
Effective dose : 2500 mg/m^3

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

The product is: Not an irritant.

Irritation to eyes

Parameter : Irritation to eyes (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

The product is: Not an irritant.

Irritation to respiratory tract

Parameter : Irritation to respiratory tract (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

The product is: Not an irritant.

Sensitisation

not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Toxicological data are not available.

Germ cell mutagenicity

Toxicological data are not available.

Reproductive toxicity

Toxicological data are not available.

Not classified according to available information.
Specific target organ toxicity (single exposure)
Not classified based on available information.
Specific target organ toxicity - repeated exposure
Not classified according to the available information.
Aspiration toxicity
Not classified according to the available information.

11.2 Other Hazards

Endocrine reactivity
Produkt:
Assessment: The substance/mixture does not contain components with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

Acute (short-term) algae toxicity

Parameter :	IC50 (ZINC OXIDE ; CAS No. : 1314-13-2)
Species :	Algae
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	= 136 mg/l
Exposure time :	72 h

Chronic (long-term) algae toxicity

Parameter :	NOEC (ZINC OXIDE ; CAS No. : 1314-13-2)
Species :	Chronic (long-term) algae toxicity
Evaluation parameter :	Chronic (long-term) algae toxicity
Effective dose :	= 0,011 mg/l
Exposure time :	120 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Endocrine disrupting properties

Assessment: The substance/mixture does not contain components with endocrine disrupting properties according to

REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7 Additional ecotoxicological information

Do not allow to enter into environmental waters or drains.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Do not allow to enter into environmental waters or drains.

Product/Packaging disposal

Wastes and empty containers comply with the local waste regulations.

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11*

Waste name

Waste paint and varnish containing organic solvents or other dangerous substances.

Waste code packaging

15 01 10*

Waste name

Packaging containing residues of or contaminated by dangerous substances.

Non-contaminated packages may be recycled.
Packing which cannot be properly cleaned must be discarded according to local regulations.

SECTION 14: Transportation information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

Not applicable

14.8 Additional information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

National regulations

Restrictions of occupation :None, if handled according to instructions.

Hazardous Incident Ordinance : not applicable

Technical Instructions on Air Quality Control (TA-Luft):Weight fraction (Number 5.2.5. II) : 50-55%

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

VOC-Regulation (31. BImSchV)

VOC product category : Paints and varnishes
VOC subcategory of the product : One-pack performance coatings
VOC limit value step II (g/L), ready-to-use condition : 500
Maximum VOC content (g/L) of the product in a ready to use condition : 490

Additional information

Giscode : Ö 60+

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

Acute Tox.	Akute Toxizität
ADR	Accord european for transportation of dangerous merchandise Agreement concerning the International Carriage of Dangerous Goods by Road –
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	chronic aquatic toxicity
Asp. Tox.	Danger of inhalation
AVV	German disposal regulatin
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BImSchV	Verordnung zur Durchführung des Bundesimmissionsschutzgesetzes
CAS	Chemical Abstracts Service – Gesellschaft für die Vergabe von CAS-Nummern
CLP	Classification, Labelling and Packaging (Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen)
CMR	carcinogen, mutagen, reproduktionstoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)
DIN	Deutsches Institut für Normung
EAK	Europäischer Abfallkatalog
EC50	Mittlere effektive Konzentration
EN	Europäische Norm
EU	Europäische Union
EUH	Europäische Gefahrenhinweise
Eye Dam.	Schwere Augenschädigung
Eye Irrit.	Augenreizend
Flam. Liq.	Entzündbare Flüssigkeit
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien)
hPa	Hectopascal
IATA-DGR	International Air Transport Association –Dangerous Goods Regulations (Gefahrgutvorschriften der Internationalen Flug-Transport-Vereinigung)
ICAO-TI	International Civil Aviation Organization-Technical Instructions (Technische Anleitungen für den sicheren Transport von Gefahrgütern in der Luft der zivilen Luftfahrtgesellschaft)
IC50	Halbmaximale Hemmstoffkonzentration
IMDG	International Maritime Code for Dangerous Goods (Internationaler Code für Gefahrgüter auf See
ISO	Internation Standards Organization (Internationale Organisation für Normung)
LC50	Lethal concentration, 50 percent (Lethale Konzentration für 50% einer Versuchspopulation)
LD50	Lethal dose, 50 percent (Lethale Dosis für 50% einer Versuchspopulation)
LQ	Limited Quantities (begrenzte Mengen)
MAK	Maximale Arbeitsplatzkonzentrationswerte gesundheitsgefährdender Stoffe
Met. Corr.	Korrosiv gegenüber Metallen
NOEC	No Observed Effect Concentration (Tierexperimentell festgelegte höchste Konzentration, bei der keine Wirkung – schädigender Effekt – mehr nachweisbar ist)
PBT	Persistent, Bioaccumulative and Toxic (persistent, bioakkumulierbar und toxisch)
RCP	Reciprocal Calculation-based Procedure (Methode zur Berechnung von Arbeitsplatzgrenzwerten von Kohlenwasserstoffgemischen

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
RID	Reglement concernant le transport International ferroviaire de marchandises Dangereuses (Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)
Skin Corr.	Hautätzende Wirkung
Skin Irrit.	Hautreizende Wirkung
Skin Sens.	Sensibilisierung durch Hautkontakt
STOT RE	Spezifische Zielorgan-Toxizität – wiederholte Exposition
STOT SE	Spezifische Zielorgan-Toxizität – bei einmaliger Exposition
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations (Vereinte Nationen)
VbF	Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)
VOC	Volatile Organic Compounds (flüchtige organische Verbindungen)
vPvB	very Persistent and very Bioaccumulative (sehr persistent und sehr bioakkumulierbar)
WGK	Wassergefährdungsklasse (German Water Hazard Class)

Siehe auch Übersichtstabellen unter www.euphrac.com oder http://abk.esdscom.eu

16.3 Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version.
Transport regulations according ADR, RID, IMDG, IATA in the current version.
Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been dertermined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification and evaluation was carried out by the calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

No exposure scenario according to REACH Regulation (EC) No 1907/2006 is required for this product.
Communication of uses according to REACH Article 31 (1)(a) - registered substances/mixtures fulfilling the criteria for classification according to Regulation (EC) No 1272/2008 or 1999/45/EC - is not required.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.