

SAFETY DATA SHEET

In accordance with Regulation (EU) No 1907/2006 with later amendments

HIPOL GL-5 80W-90, HIPOL GL-5 85W-140, HIPOL 15F

Made on: 30.03.2006

Updated on: 02.06.2021

Version: 9.0 CLP

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

1.1. Product identifier

Trade name: **HIPOL GL-5 80W-90, HIPOL GL-5 85W-140, HIPOL 15F**

UFI code: **2S30-7045-300M-XWK2** (Hipol GL-5 80W-90)

EV30-Q0TJ-E004-K854 (Hipol GL-5 85W-140)

AY30-70GX-Q00M-8KR6 (Hipol 15F)

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

Identified uses: lubrication of gears in vehicles

Uses advised against: other uses are not recommended.

1.3. Details of the supplier of the safety data sheet

Manufacturer: **ORLEN OIL Sp. z o.o.**

Address: 31-323 Kraków, ul. Opolska 114

Phone/Fax +48 12 66 555 00 / +48 12 66 555 01

No.: Quality-related information: phone + 48 242010367, +48 242869509, +48 242869556

E-mail: msds@orlenoil.pl

1.4. Emergency telephone number:

+ 48 242010367, +48 242869509, +48 242869556 (in weekdays from 7.00 till 15.00)

In case of emergency call 112 (Emergency number), 998 (Fire Brigade), 999 (Ambulance Service)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

risks	Classification	According to Regulation (EC) No. 1272/2008 (CLP):
	resulting from physicochemical properties:	Not classified as hazardous
for humans:		Skin Sens. 1, H317
for environment:		Not classified as hazardous

Description of hazard phrases: see section 16

2.2. Label elements

Pictogram:



Signal word: **Warning**

Hazard statements:

H317 - May cause an allergic skin reaction.

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Precautionary statements:

P102 - Keep out of reach of children.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P501 - Dispose of contents/container to a licensed waste disposal company.

Additional information on the label:

Contains: Polysulfides, di-tert-Bu, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched).

2.3. Other hazards

Components of the mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

The components of the mixture are not identified as having endocrine disrupting properties.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances – not applicable

3.2. Mixtures: mixture of mineral base oils and enriching additives

Hazardous ingredients and its concentrations in the mixture:

Substance name/ REACH registration number	CAS No/ EC No	% wt.	Index number	Classification according to EC Regulation No.1272/2008 (CLP)
Unspecified base oil 01-2119484627-25	64742-54-7/ 265-157-1	~89	649-467-00-8	Substance is not classified as hazardous
Unspecified base oil 01-2119486948-XXXX	101316-69-2/ 309-874-0	~7	649-527-00-3	Substance is not classified as hazardous
Polysulfides, di-tert-Bu	68937-96-2 273-103-3	1,5 - <3	-	Aquatic Chronic 3, H412 Skin Sens.1, H317
Reaction products of bis(4- methylpentan-2- yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) 01-2119493620-38	931-384-6	0,3 - 0,6	-	Acute Tox. 4, H302 Aquatic Chronic 1, H411 Eye Dam. 1, H318 Skin Sens. 1B, H317
(Z)-N-9-octadecenylpropane-1,3- diamine 01-2118487002-46	230-528-9	0,03-0,07	-	Eye Dam. 1; H318 Skin Corr. 1B; H314 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=1) Acute Tox. 4; H302 STOT RE 1; H372
(Z)-octadec-9-enylamine, C16-18- (even numbered, saturated and unsaturated)-alkylamines	627-034-4	<0,007	-	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 (M=10) Asp. Tox. 1; H304 Skin Corr. 1B; H314 STOT RE 2; H373 STOT SE 3; H335 Acute Tox. 4; H302

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Description of H phrases and full text of classification given in Section 16.

Base oils applied in the mixture **are not classified as carcinogenic**. DMSO extract content (according to IP 346) <3%. Based on viscosity it does not pose hazard by aspiration.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

Remove the victim (move/carry) from the exposure area to fresh air and keep warm and quiet. Place an unconscious person in the recovery position, loosen tight parts of clothes; control and maintain patency of the airways. Give oxygen in the case of breathing disorders; if not breathing, use artificial ventilation. In the case of loss of consciousness, respiratory disorders or persisting symptoms obtain medical aid immediately.

Skin contact:

Immediately remove contaminated/soaked clothes and shoes. Thoroughly wash contaminated skin with soapy water or mild detergent, and then rinse with water. Consult a doctor if irritation symptoms appear and persist.

NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources.

Eye contact:

Flush the contaminated eyes with running water, remove contact lenses (if worn) and continue flushing for approx. 15 minutes. When flushing, keep the eyelids wide open and move the eyeball. Consult a doctor if symptoms appear and persist.

NOTE: Do not use a stream of water which is too strong, it may damage the cornea.

Swallowing:

Do not induce vomiting. In the case when spontaneous vomiting occurs, keep the victim leaning forward, with her/his face directed to the ground. Obtain medical aid.

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

Not determined.

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

Do not induce vomiting and do not administer anything orally to an unconscious person. Show the material safety data sheet or the label/container to the medical staff. A person providing first aid in the area where vapour/fog concentration is unknown should be equipped with the appropriate respiratory protection.

Indications for a doctor: symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, dry powder, foam; water spray or water fog.

Unsuitable extinguishing media: water jet.

5.2. Special hazards arising from the substance or mixture

Flammable liquid with high ignition temperature. In the fire environment smokes containing carbon oxides and other unidentified thermal decomposition products of higher hydrocarbons are formed. Avoid breathing products being released in the fire environment - they may be hazardous for health.

5.3. Advice for fire fighters

Proceed in accordance with procedures applicable for extinguishing chemical fire. In the case of fire involving great amounts of the product, remove all bystanders not participating in action; call emergency brigades and the Fire Brigade.

Cool the containers exposed to fire or high temperature with water spray from a safe distance, if possible and remove them from the endangered area.

Prevent the wastewater after fire extinguishing from penetrating sewage and water tanks. Remove wastewater and residue after firefighting in accordance with valid regulations.

People participating in the fire-extinguishing action should be properly trained, equipped with a full protective

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clothing and a self-containing breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use individual protection measures – see section 8 of the Safety Data Sheet.

Limit the access of bystanders to the endangered area until proper cleaning operations are finished. In the case of great leakage isolate the endangered area. Ensure that breakdown and its results are eliminated by a properly trained staff only.

Avoid contact with the eyes, skin and clothes. Do not inhale vapours or mist. If release occurred in closed area, ensure adequate ventilation.

NOTE: Spilled oils can make surfaces slippery.

Remove ignition sources, extinguish open fire, do not smoke.

6.2. Environmental precautions

If it is possible and safe, stop or limit product release. Limit spreading of the great leakages by embanking the area. Prevent the product from penetrating drains, waters or soil. Notify respective authorities (occupational safety and hygiene, emergency brigades, environmental brigades and organs of administration).

6.3. Methods and material for containment and cleaning up

Cover up small spillage with non-flammable, neutral absorbent material (sand, soil, diatomic earth, vermiculite) and collect in an appropriate, closed, labelled waste bin. Clean the contaminated area with water with detergent, and then rinse with water. Pump off large amounts of liquid. Dispose of according to the applicable regulations. If necessary, obtain help from specialist companies dealing with waste transport and utilisation in order to remove the product/absorbent material contaminated with the product. Use the services of professional waste transport/ utilization companies.

6.4. Reference to other sections

See also sections 8 and 13 of the Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide effective ventilation. Avoid contact with the eyes, skin and clothes. Avoid vapour and fog inhalation. Keep unused containers tightly closed.

Essential hygiene rules should be observed: do not eat, drink or smoke during work, wash hands with soapy water after work/after break in work. Do not use contaminated clothing; Immediately remove contaminated clothing and wash before reuse. NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources. Use individual protection measures in accordance with the information contained in section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed and properly labelled containers, in a cool, well ventilated place with a non-absorbing ground. The product may be stored in storage tanks in accordance with applicable regulations. Store far from heat sources, protect from direct sunlight. Protect against contamination and water accumulation. Keep away from strong oxidisers. Storage temperature: -20 – 40°C.

7.3. Specific end use(s)

None.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION EQUIPMENT

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8.1. Control parameters

Product does not contain components with occupational exposure limit values established on the Community level.

Legal basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU.

Please check also national legislation.

Poland

Highly refined mineral oils – inhaled fraction: TLV-TWA: 5 mg/m³, TLV-STEL: - mg/m³, TLV-C: –

Regulation of the Minister of Family, Work and Social Policy dated June 12th, 2018 on the maximum occupational levels of factors hazardous to health at the workplace (Dz.U. 2018, item 1286)

8.2. Exposure controls

Recommended methods of exposure assessment in the air:

- PN-Z-04008-7:2002 – "Air purity protection -- Sampling methods -- Principles of air sampling in work place and interpretation of results"

- PN-Z-04108-6:2006 „Air purity protection -- Determination of mineral oil (liquid phase aerosol) in work places by absorption spectrometry method in ultra-violet "

-PN-Z-04108-5:2006 „Air purity protection -- Tests for content of oils -- Determination of mineral oil (liquid phase of aerosol) in work places by absorption spectrometry method in infra-red"

Appropriate engineering controls:

General ventilation and/or local fume hood in order to maintain hazardous agent concentration in air below acceptable limits.

Eye or face protection:

Tight safety eyeglasses (goggles) in the case of prolonged exposure or the risk of liquid splashing to the eye. It is recommended to equip the workplace with a water shower to flush eyes.

Skin protection:

Wear impermeable, oil resistant gloves (e.g. perbutane, viton, butyl rubber). Glove material should be selected with consideration to the breakthrough time (recommended minimum 30 min.), permeability rate (recommended: minimum level 2) and degradation. It is recommended to change gloves regularly and replace them immediately if any signs of wear or damage (tearing, puncture) or changes in appearance (colour, flexibility, shape) occur. Wear protective apron or protective suit made of coated, product-resistant fabrics; oil-resistant, anti-slippery shoes.

Respiratory protection:

Not required under normal conditions of use. In the case of exceeding the acceptable limits or inadequate ventilation use the approved respirator equipped with a suitable filter or filter-absorber. For activities in the limited space / insufficient oxygen content in air / high uncontrolled emission / any circumstances, in which the mask does not provide adequate protection, use self-contained breathing apparatus.

Thermal hazards:

Not applicable

Environmental exposure controls:

Consider using precautionary measures in order to protect the area around storage tanks.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- | | |
|--------------------|--|
| a) Appearance | : Clear liquid/ colour: amber to brown |
| b) Odour | : characteristic for gear oil |
| c) Odour threshold | : Not applicable |

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d) pH	: Not applicable
e) Melting/solidification temperature	: for SAE 80W-90,85W-90: approx. -30°C for SAE 85W-140: approx. -20°C
f) Initial boiling temperature and melting temperature range	: not determined
g) Ignition point	: for SAE 80W-90,85W-90: approx. 225°C for SAE 85W-140: approx. 240 °C
h) Evaporation rate	: Not determined
i) Flammability (solid, gas)	: Not applicable
j) Upper/lower flammability limit or upper/lower explosion limit	: Oil mist flammability at concentration approx. 45g/m ³ .
k) Vapour pressure	: Not determined
l) Vapour density	: Not determined
m) Relative density	: approx. 0,88 g/cm ³
n) Solubility	: Insoluble in water. Soluble in hydrocarbon solvents.
o) Distribution coefficient n-octanol/ water	: Not determined
p) Self-ignition point	: Not determined
q) Decomposition temperature	: Not determined
r) Viscosity	: for SAE 80W-90,85W-90: 13,5–18,5mm ² /s (100°C) for SAE 85W-140: 24 – 32,5mm ² /s (100 °C)
s) Explosive properties	: Not applicable
t) Oxidizing properties	: Not applicable

9.2. Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive.

10.2. Chemical stability

The product is stable under normal ambient conditions, as well as under the expected temperature and under the expected pressure.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid:

High temperature, open flame and other ignition sources.

10.5. Incompatible materials

Strong oxidisers

10.6. Hazardous decomposition products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Data for base oils:

LD50: >5000 mg/kg (oral)

LC50: >5.0 mg/l (inhalation)

LD50: >2000 mg/kg (skin)

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Skin corrosion/irritation:

Classification criteria have not been met based on the available data. Prolonged contact with product may cause skin irritation.

Serious eye damage/irritation:

Classification criteria have not been met based on the available data.

Respiratory or skin sensitisation:

Classification criteria have not been met based on the available data.

Germ cell mutagenicity:

Classification criteria have not been met based on the available data.

Carcinogenicity:

Classification criteria have not been met based on the available data.

Reproductive toxicity:

Classification criteria have not been met based on the available data.

STOT – single exposure:

Accidental ingestion may cause gastric disturbances (nausea, vomiting, stomach pain);

STOT – repeated exposure:

Repetitive or prolonged exposure may cause drying, cracking or chronic inflammation of the skin. May cause respiratory tract irritation in case it appears in a form of oil mist or vapours in high temperatures.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for: Unspecified base oil

EC50: >10000 mg/l – acute toxicity test on fresh-water invertebrates; *Daphnia magna*, 48h

NOEL: 100 mg/l – chronic toxicity test on invertebrates; *Daphnia magna*, 21 days

EC50: >100 mg/l – acute toxicity test on fresh-water algae; *Pseudokirchinella subcapitata*, 72h

LC50: >100 mg/l – acute toxicity test on fresh-water fish; *Pimephales promelas*, 96h

NOEL: >1000 mg/l – chronic toxicity test on fresh-water fish; *Oncorhynchus mykiss*, QSAR, 28 days

12.2. Persistence and degradability

Limited level of biodegradability expected.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

It can be hazardous to environment in case of misuse or in emergency situations - the product penetrates into the ground, causing contamination of the groundwater.

12.5. Results of PBT and vPvB assessment

According to Annex XIII, the product does not meet PBT or vPvB criteria.

12.6. Other adverse effects

Product is classified as harmful to aquatic life. Product of very low volatility. The product is insoluble in water and lighter than water. The product accumulates on the surface of water, forming a film that hinders oxygen exchange.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste code: **13 02 05*** mineral-based non-chlorinated engine, gear and lubricating oils.

NOTE: Since waste code is assigned based on the source of origin, the end user should define the obtained wastes and assign a proper code, taking into consideration specific conditions of use, in accordance with applicable regulations.

Soaked clothes, papers or other organic materials should be collected and utilised in an controlled way.

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Do not dispose to sewer. Avoid contamination of surface and ground waters. Consider reuse. Waste product should be recovered or utilised at professional, approved furnaces or waste recycling/neutralization facilities, in accordance with applicable regulations.

Recovery / recycling / utilisation of package wastes should be performed according to the applicable regulations. NOTE: Only completely emptied and cleaned packages may be returned for recycling. Use services of authorised companies.

Legal basis: Directive 2008/98/EC, 94/62/EC

SECTION 14. TRANSPORT INFORMATION

The product is not a subject to transport regulations on hazardous goods included in ADR (road transport), RID (rail transport), IMDG (marine transport) and ICAO/IATA (air transport).

14.1. UN number	Not applicable
14.2. UN Proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for users	Not applicable
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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC as amended.

ADR Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG Code International Maritime Dangerous Goods Code.

IATA Dangerous Goods Regulations.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and

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2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2. Chemical safety assessment

Not required for a mixture.

SECTION 16. OTHER INFORMATION

Changes in sections: 2,3,12, 15,16

Abbreviations and acronyms in the Safety Data Sheet

TLV-TWA	Threshold Limit Value
TLV-STEL	Threshold Limit Value, Short Term Exposure Limit
TLV-C	Ceiling exposure limit
vPvB	very Persistent, very Bioaccumulative (substance)
PBT	Persistent, bioaccumulative, and toxic (substance)
PNEC	Predicted No Effect Concentration
DN(M)EL	Derived No Effect Level
LD ₅₀	Dose that will kill 50% of the test animals
LC ₅₀	Concentration that will kill 50% of the test animals
EC _x	Concentration at which x% inhibition of growth or growth rate is observed
LOEC	Lowest Observed Effect Concentration
NOEL	No Observed Effect Concentration
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADR	Agreement on Dangerous Goods by Road
IMDG	International Maritime Transport of Dangerous Goods
IATA	International Air Transport Association
UVCB	Unknown substances, of Variable Composition, or of Biological Origin

References:

Legal regulations quoted in sections 2 – 15 of the Safety Data Sheet.
Chemical safety assessment report for the mixture ingredients.

The list of applicable hazard statements or precautionary statements not specified in whole in sections 2-15 of the Safety Data Sheet

The list of applicable H-phrases in Section 3

H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects.
H412 - Harmful to aquatic life with long lasting effects.

The list of applicable CLP classification phrases

Acute Tox.4 - Aspiration hazard, category 4
Skin Corr.2 - Corrosive /irritant to skin, category 2
Aquatic Chronic 1- Hazardous to aquatic environment, category 1 (chronic)
Aquatic Chronic 2 - Hazardous to aquatic environment, category 2 (chronic)

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Aquatic Chronic 3 - Hazardous to aquatic environment, category 3 (chronic)
Aquatic Acute 1- Hazardous to aquatic environment, category 1 (acute)
Eye Dam. 1 – Serious eye damage/irritant to eyes category 1
Skin Irrit. 2 - Corrosive /irritant to skin, category 2
Skin Sens.1 – Sensitizing to skin
STOT SE3 - Specific target organ toxicity - single exposure (effect on the respiratory tract), category 3
STOT RE1 - Specific target organ toxicity - repeated exposure (effect on the respiratory tract), category 1
STOT RE2 - Specific target organ toxicity - repeated exposure (effect on the respiratory tract), category 2

Advice on training for employees:

Employees who use the product should be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

This MSDS is not a quality certificate for the product. All data presented in this sheet are to be taken only as a help in safe handling in transport, distribution, use and storage. Persons handling the product should be informed about risks and precautionary measures. Information in the Safety Data Sheet relates to the above mentioned product and its specified uses only. They may be obsolete or insufficient for this product used in conjunction with other materials or in different applications than those specified in the Safety Data Sheet.

The user is obliged to follow all applicable standards and regulations and is also responsible for inappropriate use of information contained in this sheet or for an inappropriate use of the product. In the case of special applications evaluate exposure and develop the appropriate procedure and training programs in order to ensure safety at work.

Additional information: Classification was made on basis of data for hazardous ingredients content by calculation method according to the guidelines of Regulation 1272/2008 / EC (CLP) with amendments.
