SAFETY DATA SHEET
IN ACCORDANCE WITH REGULATION (EC) 1907/2006 (REACH)
Multi grease

Preparing date: 26 April 2024 **Version: 1**

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

1.1 Product identifier: Multi grease

UFI: 0JNA-9FYP-USKC-4SRG

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

Identified uses: Maintenance.
For consumer, industrial and professional use.

Uses advised against: Other than above.

1.3 Details of the supplier of the safety data sheet:
Distributor:

Email address for a competent person responsible for the safety data sheet:

1.4 Emergency telephone number:
Health Toxicological Information Service, Hungary:
06 1 476 6464 (available day and night)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:
in accordance with Regulation (EC) No 1272/2008 (CLP)

Aerosols, Category 1	H222 Extremely flammable aerosol H229 Pressurised container: May burst if heated.

2.2 Label elements:

Danger

Hazard Statement(s):

H222 Extremely flammable aerosol
H229 Pressurised container: May burst if heated.

Precautionary Statement(s):

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to: hazardous waste.

2.3 Other hazards:

PBT, vPvB assessment: It does not meet the criteria for PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Mixtures:

Identifier	CAS Number	EC Number	Index Number/ REACH Registration Number	Concentration by weight	Classification in accordance with Regulation (EC) No 1272/2008
Propellant – PB 4.2 T:				**approx. 50 %**	**Flam.Gas 1A H220 Press Gas H280 (liquefied gas)**
Propane	74-98-6	200-827-9	601-003-00-5/ 01-2119486944-21	-	Flam. Gas 1A H220 Press. Gas H280 (liquefied gas)
Butane	106-97-8	203-448-7	601-004-00-0/ 01-2119474691-32	-	Flam. Gas 1A H220 Press. Gas H280 (liquefied gas)
Isobutane	75-28-5	200-857-2	601-004-00-0/ 01-2119485395-27-0019	-	Flam. Gas 1A H220 Press. Gas (liquefied gas)
1,3-butadiene	106-99-0	203-450-8	601-013-00-X/ -	-	Flam. Gas 1A H220 Press. Gas H280 (liquefied gas) Muta. 1B H340 Carc. 1A H350
MULTIS EP 1				**20 – 30 %**	**Not dangerous**
1-Propene, 2-methyl-, sulfurized	68511-50-2	270-943-2	-	-	Aquatic Chronic 4 H413

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	68442-22-8	270-478-5	-/ 01-2119948548-22	-	Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411
Methyl-1H-benzotriazole (isomer mixture)	29385-43-1	249-596-6	-/ 01-2119979081-35	-	Acute Tox. 4 H302 Eye Irrit. 2 H319 Repr. 2 H361d Aquatic Chronic 2 H411
Naphthenic acids, zinc salts	12001-85-3	234-409-2	-/ 01-2120783834-41	-	Eye Irrit. 2 H319 Skin Sens. 1B H317 Aquatic Chronic 2 H411
MOL-Process O 15 technological and spindle oil				**5 – 10 %**	**Asp. Tox. 1 H304**
Distillates (petroleum), solvent-dewaxed light paraffinic *Note L*	64742-56-9	265-159-2	-/ 01-2119480132-48	-	Asp. Tox. 1 H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic *Note L*	64742-65-0	265-169-7	-/ 01-2119471299-27	-	Not dangerous
Distillates (petroleum), hydrotreated light paraffinic *Note L*	64742-55-8	265-158-7	-/ 01-2119487077-29	-	Asp. Tox. 1 H304

* Classification given by the manufacturer.
Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 ‘Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method’, Institute of Petroleum, London.

Methyl-1H-benzotriazole (isomer mixture) / MULTIS EP 1/:
ATE (Estimated acute toxicity value): [Oral] = 675 mg/kg

For the full text of H-sentences mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

Ingestion:
The product is sold in an aerosol bottle, so it is unlikely to be swallowed.
In case of accidental ingestion, the victim should not be induced to vomit, a doctor should be consulted.

Inhalation:
The injured person must be taken to fresh air and rest assured. In the event of respiratory irritation (cough) or difficulty breathing, call a doctor immediately. If breathing has stopped, a qualified person should start artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation.
Giving oxygen can have a beneficial effect if it is given by a qualified person, preferably on medical advice.
Skin contact:
Clothing contaminated with the product must be removed immediately. The affected skin surface should be washed with lukewarm water and soap. Do not attempt to rewarm the affected skin on the spot. Do not rub or apply dry heat. Carefully cut around the part of the cloth that adheres to the wound. Cover the casualty loosely with a sterile dressing. Get the injured person to a first aid station or hospital quickly.
Eye contact:
The eyes should be thoroughly rinsed with plenty of running water for at least 15 minutes (while pulling the eyelids apart). You need to remove the contact lenses, if you have them, and it is easy to do. Do not attempt to overheat. Cover both eyes with a sterile cloth, then the eye should be shown to a doctor.

4.2 Most important symptoms and effects, both acute and delayed:
In high concentrations, it has a suffocating effect, can cause suffocation, and lack of oxygen can have fatal consequences. (fuel gas data)
Data for Multis EP 1: Skin contact: Symptoms may include the following:
irritation, dryness, cracking.

4.3 Indication of any immediate medical attention and special treatment needed:
Show the safety data sheet or label to the doctor if possible.
Symptomatic treatment is recommended. Constant monitoring is important in the first 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media:
Suitable extinguishing media: Extinguishing powder, carbon dioxide (CO_2), extinguishing foam, water spray.
Inappropriate extinguishing media: Strong water jet (can only be used to cool the bottle).

5.2 Special hazards arising from the substance or mixture:
The area must be evacuated. The fire must only be extinguished from a safe distance or from a protected place. Avoid inhalation of hazardous vapours and toxic decomposition products (approach from the windward side). Due to the aerosol packaging, it is unlikely that a large amount of the mixture will leak out. The heat from the fire can cause a rapid increase in pressure inside the cylinder and cause the cylinder to explode. Personnel and materials not yet reached by the fire must be moved to safety.
Hazardous combustion products: In case of fire, toxic gases may be released (CO, CO_2, hydrocarbons, aldehydes, soot).

5.3 Advice for firefighters:
Full fireproof protective equipment. In case of fire, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
Unauthorized persons must be kept away.
Ignition sources must be removed.
Adequate ventilation must be ensured.
Avoid contact with skin or eyes.
The vapor/spray of the product must not be inhaled.
Full protective equipment and a self-contained breathing apparatus must be worn.
Caution, there is a risk of explosion if the leaking material enters the sewer network. In the event of a large spill, the competent authorities must be notified.
For emergency responders:
Unauthorized persons must be kept away.
Ignition sources must be removed.
Adequate ventilation must be ensured.
Avoid contact with skin or eyes.
The vapor/spray of the product must not be inhaled.
Full protective equipment and a self-contained breathing apparatus must be worn.
Caution, there is a risk of explosion if the leaking material enters the sewer network. In the event of a large spill, the competent authorities must be notified.

6.2 Environmental precautions:

The product must not be discharged into the sewer or the waters.
Due to the small aerosol packaging, leakage of a large amount is unlikely.
If the spilled substance (propellant gas) gets into the sewer network, there is a risk of explosion.
All deeper and more distant sources of ignition must be eliminated.

6.3 Methods and material for containment and cleaning up:

Stop the leak if it is safe to do so.
Use a water spray to reduce the concentration of the gas.
Seal off the area until the gas dissipates.
It must be disposed of in accordance with the regulations.
Only non-sparking devices may be used.
Liquid residues must be picked up with an absorbent non-combustible material (dry earth, sand, etc.) and collected until disposal.

6.4 Reference to other sections:

See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

It can only be used in a well-ventilated area! It must be kept away from heat and sources of ignition. The rules for pressurized containers must be observed. Avoid inhaling the spray of the mixture, getting it on the skin, getting it in the eyes, and swallowing it.
Use a spark-proof ventilation system, explosion-proof equipment and an intrinsically safe electrical system.
Always shake thoroughly before use.
Risk of fire and explosion: The engine must be stopped, the ignition must be switched off.

There is overpressure in the device. Do not open, knock, puncture, expose to temperatures above 50°C, sunlight, radiant heat or throw into fire, even when empty! It is forbidden to spray on an open flame or glowing material. Refilling the device is prohibited!
No smoking!

7.2 Conditions for safe storage, including any incompatibilities:
Individual storage requirements: Ensure adequate ventilation.
Electrostatic charging must be prevented.
It should be stored in a dry, cool place at a temperature below 35°C.
It must be kept away from heat and sources of ignition.
Keep away from children and separate from food!
Hands should not be wiped with a rag that was previously used for cleaning. Soaked rags should not be placed in the pockets of work clothes.
Do not eat, drink or smoke during use.
Incompatible materials: Strong oxidizers.

7.3 Specific end use(s): Maintenance. For consumer, industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:
The permitted average concentrations and permitted peak concentrations of dangerous substances in the air at the workplace and their characteristic properties according to Decree No. 5/2020 (II. 6.) ITM on the Protection of the Health and Safety of Workers from the Risks Related to Chemical Pathological Factors (Hungary):

Substance	CAS Number	ÁK-value mg/m^3	CK-value mg/m^3	Characteristics	Reference	ÁK correction group
n-BUTANE	106-97-8	2350	9400	-	-	N
1,3-BUTADIENE	106-99-0	2,2	1	k(1A), i	EU6	T
OIL (mineral) MIST**	92062-35-68042-47-572623-83-792045-77-892045- 45-9	5			SCOEL/ SUM/163/2011	T

N Irritants, simple asphyxiants, low health hazards. Correction is NOT necessary.
****** The limit applies to the listed, non-carcinogenic, non-recycled mineral oil aerosols containing no additives. (Limit value proposed in Recommendation No. SCOEL/SUM/163/2011, SCOEL: Scientific Committee on Occupational Chemical Exposure Limits.)
T Substances that have a harmful effect on health after LONG-TERM exposure. Corrected ÁK = ÁK × 40/hours per week.
b Bőrön át is felszívódik.
i Irritant substance that irritates the skin, mucous membranes, eyes, or all three.
k(…) Carcinogenic (classification according to the European Parliament and Council Regulation 1272/2008/EC, under another name: CLP Regulation).
EU6 Value stated in Directive 2019/130/EU
ÁK-value Permitted average concentration.
CK-value Permitted peak concentration.
CAS number Chemical Abstracts Service registration number used to identify chemical substances.

DNEL/DMEL/PNEC values:

MULTIS EP 1 components:

CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
DNEL Oral
Long-term systemic effects, population: 0.24 mg/kg bw/day
DNEL Inhalation
Long-term systemic effects, population: 1.98 mg/m³
DNEL Through the skin
Long-term systemic effects, population: 5.71 mg/kg bw/day
DNEL Inhalation
Long-term systemic effects, workers: 8.05 mg/m³
DNEL Through the skin
Long-term systemic effects, workers: 11.4 mg/kg bw/day

CAS: 29385-43-1 Methyl-1H-benzotriazole (isomer mixture)
DNEL Oral
Short-term systemic effects, population: 0.25 mg/kg bw/day
DNEL Inhalation
Long-term systemic effects, workers: 8.8 mg/m³
DNEL Oral
Long-term systemic effects, population: 0.01 mg/kg bw/day
DNEL Through the skin
Long-term systemic effects, population: 0.01 mg/kg bw/day
DNEL Through the skin
Long-term systemic effects, workers: 0.3 mg/kgbw/day
DNEL Inhalation
Long-term systemic effects, population: 350 µg/m³

CAS: 12001-85-3 Naphthenic acids, zinc salts
DNEL Oral
Long-term systemic effects, population: 0.17 ng/kg bw/day
DNEL Through the skin
Long-term systemic effects, population: 1.7 mg/kg bw/day
DNEL Inhalation
Long-term systemic effects, population: 290 µg/m³
DNEL Inhalation
Long-term systemic effects, workers: 1.18 mg/m³
DNEL Through the skin
Long-term systemic effects, workers: 3.3 mg/kg bw/day
DNEL Oral
Long-term systemic effects, population: 0.17 mg/kg bw/day
DNEL Inhalation
Long-term systemic effects, population: 0.29 mg/m³
DNEL Inhalation
Long-term systemic effects, workers: 1.18 mg/m³

DNEL Through the skin
Long-term systemic effects, population: 1.7 mg/kg bw/day
DNEL Through the skin
Long-term systemic effects, workers: 3.3 mg/kg bw/day

CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
PNEC:
Fresh water 0.004 mg/l
Seawater 0.0046 mg/l
Freshwater sediment 0.04508 mg/kg dwt
Marine sediment 0.005 mg/kg dwt
Soil 0.007 mg/kg dwt
Wastewater Treatment Plant 100 mg/l
Secondary Poisoning 10.67 mg/kg

8.2 Exposure controls:

Individual protection measures, such as personal protective equipment:
Keep away from food, drink and feed.
Hands must be washed after working hours and before breaks.
It is forbidden to eat, drink or smoke while working.
Eye/face protection:
Safety glasses/face shields with side shields are required if there is a risk of splashing.
Skin protection:
Long-sleeved protective clothing and protective shoes are recommended.
Hand protection:
Nitrile rubber, fluorinated rubber protective gloves. (EN 374) is recommended.
Respiratory protection:
A half mask with a combined "A/P1" filter is recommended if the permissible workplace air concentration limit is exceeded (EN 141)

Environmental exposure controls
The product and its waste must be prevented from entering living water, soil and public sewers. Local and national regulations for waste water must be complied with.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

a)	Physical state:	Aerosol
b)	Colour:	Colourless
c)	Odour:	Characteristic
	Odour threshold:	No data available.
d)	Melting point/freezing point:	No data are available for this product. PB 4.2 T data: -187.6- -138.3°C Data for MOL Process O 15 technological and spindle oil: Ref. understood. -15°C MULTIS EP 1 data: >180°C
e)	Boiling point or initial boiling point and boiling range:	No data are available for this product. PB 4.2 T data: -161.48 – -0.5 °C
f)	Flammability:	Extremely flammable aerosol.

g)	Lower and upper explosion limit:	No data are available for this product. PB 4.2 T data: 5 – 15 sq. % (literature data)
h)	Flash point:	No data are available for this product. MOL Process O 15 technological and spindle oil data: typical value 185°C MULTIS EP 1 data: Outdoor (OC): >180°C
i)	Auto-ignition temperature:	No data available. PB 4.2 T data: 287-537°C
j)	Decomposition temperature:	No data available. MULTIS EP 1 data: >180°C
k)	pH:	No data available.
l)	Kinematic viscosity:	No data available. MOL Process O 15 technological and spindle oil data: typical value at 40°C 15.9 mm^2/s at 100°C understood. 3.5 mm^2/s MULTIS EP 1 data: 150 mm^2/s
m)	Solubility:	Not applicable. PB 4.2 T data: 24.4-60.4 mg/l in water
n)	Partition coefficient n-octanol/water (log value):	No data available. MULTIS EP 1 data: >3.5
o)	Vapour pressure:	No data are available for this product. PB 4.2 T data: <=1600 kPa (at 70°C)
p)	Density and/or relative density:	No data are available for this product. PB 4.2 T data: >=0.505 g/cm^3 (at 505°C) MOL Process O 15 technological and spindle oil data: 0.845-0.865 g/cm^3 MULTIS EP 1 data: 0.9 g/cm^3 (20°C)
q)	Relative vapour density:	No data available.
r)	Particle characteristics	No data available.

9.2 Other information:

Explosiveness:

PB 4.2 T data: May form an explosive mixture with air.

SECTION 10: Stability and reactivity

10.1 Reactivity: Not known.

10.2 Chemical stability: Stable under normal use.

10.3 Possibility of hazardous reactions: *PB 4.2 T data*: Contact with strong oxidizing agents (peroxides, chromates, etc.) may cause a fire hazard.

10.4 Conditions to avoid: Keep away from heat, sources of ignition, hot surfaces, sparks, and open flames.

10.5 Incompatible materials: Strong oxidizers.

PB 4.2 T data: A mixture containing nitrates and other oxidizing agents (e.g. chlorates, perchlorates, liquid oxygen) can form an explosive mixture.

10.6. Hazardous decomposition products: In case of fire, toxic gases may be released (CO, CO_2, hydrocarbons, aldehydes, soot).

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

- acute toxicity: Based on available data, the classification criteria are not met.

  Data on the components of the product:
  PB 4.2 T data:
  CAS: 74-98-6 Propane: 1443 mg/l (inhalation, rat) (literature data)
  CAS: 106-97-8 Butane: 658 mg/l (inhalation, rat) (literature data)
  CAS: 75-28-5 Isobutane: 974 mg/l (inhalation, mouse) (literature data)

  MULTIS EP 1 data:
  CAS: 68511-50-2 1-Propene, 2-methyl-, sulfurized
  LD50 Oral Rat 8.6 g/kg

  CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
  LD50 Dermal Rabbit >2000 mg/kg
  LD50 Oral Rat >2000 mg/kg – EPA

  CAS: 29385-43-1 Methyl-1H-benzotriazole (isomer mixture)
  LD50 Dermal Rabbit >2000 mg/kg
  LD50 Oral Rat 675-720 mg/kg

  CAS: 12001-85-3 Naphthenic acids, zinc salts
  LD50 Dermal Rabbit 2500 mg/kg -
  LD50 Oral Mouse - female >2000 mg/kg - OECD 401
  LD50 Oral Rat 4920 mg/kg

  MOL Process O 15 technological and spindle oil:
  CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic
  LD50 (rat) Oral: > 5000 mg/kg (literature data)
  LD50 (rabbit) Dermal: > 2000 mg/kg (literature data)
  LC50 (rat) Inhalation: > 5.53 mg/L (4 hours) (literature data)

  CAS: 64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic
  LD50 (rat) Oral: > 5000 mg/kg (literature data)
  LD50 (rabbit) Dermal: > 2000 mg/kg (literature data)
  LC50 (rat) Inhalation: > 5.53 mg/L (4 hours) (literature data)

  CAS: 64742-55-8 Distillates (petroleum), hydrotreated light paraffinic
  LD50 (rat) Oral: > 5000 mg/kg
  LD50 (rabbit) Dermal: > 5000 mg/kg

- skin corrosion/irritation: Based on available data, the classification criteria are not met.

MULTIS EP 1 data:
CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
Eye - Severe irritant - Rabbit
Skin - Irritant – Rabbit

CAS: 29385-43-1 Methyl-1H-benzotriazole (isomer mixture)
Eye - Iris damage - Rabbit - OECD 405
Eye - Mild irritant - Rabbit - 10 mg
Skin - Edema - Rabbit - 4 hours OECD 404

CAS: 12001-85-3 Naphthenic acids, zinc salts
Skin - Mild irritant - Rabbit - 0.5 ml -
Skin - Slightly irritating - Rabbit - 24 hours 500mg

- serious eye damage/irritation: Based on available data, the classification criteria are not met.
- respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
  It is not toxic, but it is dangerous due to the aspheric (lack of oxygen) effect.
  It can have a narcotic effect when inhaled in high concentrations.

MULTIS EP 1 data:
CAS: 12001-85-3 Naphthenic acids, zinc salts
skin, human, causes sensitivity

- germ cell mutagenicity: Based on available data, the classification criteria are not met.
- carcinogenicity: Based on available data, the classification criteria are not met.
- reproductive toxicity: Based on available data, the classification criteria are not met.

MULTIS EP 1 data:
CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
Negative - Rat - Oral: 160 mg/kg NOAEL

- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- aspiration hazard: Based on available data, the classification criteria are not met.

Information on likely routes of exposure: Inhalation, skin contact, eye contact. Ingestion is unlikely.

11.2 Information on other hazards:
No data available.

SECTION 12: Ecological information

12.1 **Toxicity:** The mixture must not be discharged into living water, public sewers or the soil.

PB 4.2 T data:

Chronic toxicity:

CAS: 106-97-8 Butane

LC50 - Fish 24.11 mg/l literature data

LC50 - Other aquatic organisms 14.22 mg/l literature data

EC50 96 hours - Algae 7.71 mg/l literature data

CAS: 75-28-5 Isobutane

LC50 - Fish 27.98 mg/l literature data

LC50 - Other aquatic organisms 16.33 mg/l literature data

EC50 96 hours - Algae 8.57 mg/l literature data

CAS: 74-98-6 Propane

LC50 - Fish 49.47 mg/l literature data

LC50 - Other aquatic organisms 27.14 mg/l literature data

EC50 72 hours - Algae 11.89 mg/l literature data

MULTIS EP 1 data:

CAS: 68511-50-2 1-Propene, 2-methyl-, sulfurized

Acute EC50 >100 mg/l Algae 72 hours

Acute EC50 1000 mg/l Daphnia 48 hours

Acute LC50 1000 mg/l Fish 96 hours

CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts

Acute EC50 24 mg/l Algae - Scenedesmus subspicatus 72 hours OECD 201

Acute EC50 23 mg/l Daphnia - Daphnia Magna 48 hours OECD 202

Acute LC50 4.5 mg/l Fish 96 hours -

Acute NOEC 0.4 mg/l Daphnia - Daphnia Magna 21 days

CAS: 29385-43-1 Methyl-1H-benzotriazole (isomer mixture)

Acute LC50 102 mg/l Fresh water - Crustacea - Ceriodaphnia dubia 48 hours

Acute LC50 38 mg/l Fresh water - Fish - Pimephales promelas 96 hours

CAS: 12001-85-3 Naphthenic acids, zinc salts

Acute EC50 4 mg/l Algae - Pseudokirchneriella subcapitata 72 hours OECD 201

Acute EC50 100 mg/l Daphnia - Daphnia magna 48 hours

Acute LC50 92 ppm Fresh water Fish - Lepomis macrochirus 96 hours US EPA

Chronic NOEC 1 mg/l Algae - Pseudokirchneriella subcapitata 72 hours

MOL Process O 15 technological and spindle oil data:

CAS: 64742-56-9 Distillates (petroleum), solvent-dewaxed light paraffinic

Fish: LC50> 100 mg/L

For other aquatic organisms: EC50> 100 mg/L

Algae: ErC50> 100 mg/L

Crayfish: NOEC> 1 mg/L

CAS: 64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic
Fish: LC50> 100 mg/L (literature data)
Daphnia: EC50> 100 mg/L (literature data)
For other aquatic organisms: EC50> 100 mg/L (literature data)
Algae: ErC50> 100 mg/L (literature data)
Other aquatic organisms: TLM> 1 mg/L (literature data)

CAS: 64742-55-8 Distillates (petroleum), hydrotreated light paraffinic
Fish (Pimephales promelas): NOEL≥ 100 mg/L 96 hours
Daphnia (Daphnia magna): EC50> 10000 mg/L 48 hours
Daphnia (Daphnia magna): EC50> 10 mg/L 21 days
Daphnia (Daphnia magna): NOEC 10 mg/L 21 days

12.2 Persistence and degradability: No data are available for this product.
MULTIS EP 1 data:
CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts
It does not break down easily.

12.3 Bioaccumulative potential: No data are available for this product.
PB 4.2 T adata:
CAS: 74-98-6 Propane Log Kow: 1,09-2,8 (literature data)
CAS: 106-97-8 Butane Log Kow:1,09- 2,8 (literature data)
CAS: 75-28-5 Isobutane Log Kow: 1,09-2,8 (literature data)
MULTIS EP 1 adata:
MULTIS EP 1 LogKow >3.5 - small/low
CAS: 68442-22-8 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts LogKow 1.67 – small
CAS: 12001-85-3 Naphthenic acids, zinc salts LogKow 1.89 - 11.15 - big

12.4 Mobility in soil: No data are available for this product.
MOL Process O 15 technological and spindle oil data:
It adsorbs on soil particles and loses its mobility. Mobility in water: Swims on water.

12.5 Results of PBT and vPvB assessment: The components of the mixture do not contain PBT or vPvB substances in a concentration of 0.1% or higher.

12.6 Endocrine disrupting properties: No data is available for this product, however, the product's ingredients do not contain substances with endocrine-disrupting properties at a concentration of 0.1% or higher.

12.7 Other adverse effects: No data are available for this product.
MOL Process O 15 technological and spindle oil data:
If spilled in large quantities, the product can be dangerous for the environment, as it forms a film on the water surface, blocking the possibility of oxygen entering.
Water hazard classification (German): WGK 1 (according to AwSV)

SECTION 13: Disposal considerations

13.1 Waste treatment methods:
Disposal of the substance/mixture: It may be disposed of in accordance with local regulations. [Government Decree 225/2015. (VIII. 7.) on the detailed rules of certain activities related to hazardous waste]

Disposal of contaminated packaging:
It may be disposed of in accordance with local regulations.
[Government Decree 442/2012. (XII. 29.) on packaging and waste management activities related to packaging waste]
Recommended waste code:
16 05 04* (gases containing dangerous substances stored in pressure-resistant containers (including halons).
*Hazardous waste
The classification of this product into the appropriate waste identification main group, subgroup and individual waste types depends on the use of the material.
The wastes of the source resulting in the formation can be classified into several different main groups with regard to the properties of the given waste, taking into account the relevant regulations.
[Decree 72/2013. (VIII. 27.) VM on the waste catalogue]

SECTION 14: Transport information

14.1 UN number or ID number: UN 1950

14.2 UN proper shipping name: AEROSOLS, flammable

14.3 Transport hazard class(es):

ADR/RID:

Class: 2

Classification code: 5F

Labels: 2.1

Transport category (Tunnel restriction code): 2 (D)

14.4 Packing group: Not applicable.

14.5 Environmental hazards: No data are available

14.6 Special precautions for user: Not applicable.

14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

Chemical safety:
COMMISSION REGULATION (EU) 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)
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation 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

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 (CLP)
Act No. XXV. of 2000 on Chemical Safety
Decree No. 44/2000 (XII.27.) EüM on the detailed rules for certain procedures and activities related to dangerous substances and dangerous preparations
Decree No. 34/2014. (X. 30.) NGM on the requirements for the distribution of aerosol products and aerosol packaging
Health and safety:
Decree No. 3/2002 (II.08.) SzCsM-EüM concerning the minimum safety and health requirements of workplaces
Act No. XCIII. of 1993 on occupational safety
Decree No. 65/1999 (XII. 22.) EüM on on the minimal safety and health protection requirements regarding the utilization of individual protection tools by workers at the workplaces
Decree No. 5/2020 (II. 6.) ITM on the Protection of the Health and Safety of Workers from the Risks Related to Chemical Pathological Factors
Waste management:
Act No. CLXXXV. of 2012 on Waste
Governmental Decree No. 225/2015 (VIII. 7.) on detailed rules of certain activities related to hazardous waste.
Governmental Decree No. 442/2012 (XII. 29.) on packaging and on waste management activities related to packaging waste
Decree No. 72/2013 (VIII. 27.) VM concerning the list of wastes
Transport:
Decree No. 61/2013 (X. 17.) NFM on the domestic application of Annexes A and B to the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)

15.2. Chemical safety assessment: The supplier has not carried out a chemical safety assessment.

SECTION 16: Other information

a) This document is the first English version of the safety data sheet of the product of the same name. The English translation was based on version 11 of the Hungarian safety data sheet of the product dated 20 September 2023.

b) Explanation of abbreviations and acronyms used in the safety data sheet:
CAS Number: A number used to identify the chemical substance (Chemical Abstracts Service).
PBT substances: Persistent, Bioaccumulative and Toxic substances.
vPvB substances: very Persistent and very Bio-accumulative substances.
LD50: The amount of a dose, given all at once, which causes the death of 50% of a group of test animals (Lethal Dose).
LC50: The amount of a concentration, given all at once, which causes the death of 50% of a group of test animals (Lethal Concentration).
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

IMO: International Maritime Organization.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
ICAO: International Civil Aviation Organization.

c) The hazard classification was carried out by the supplier according to the 1272/2008/EC. Application of interpolation principles based on the hazard classes of the components.

d) The full text of the H sentences in Section 3 of the safety data sheet:

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H340 May cause genetic defects.
H350 May cause cancer.
H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.

The safety data sheet has been prepared in accordance with the applicable EU and Hungarian legislation in force. It is limited to our current knowledge, does not guarantee the properties of the product and does not form the basis of any legal relationship.