

Beiblatt zum Sicherheitsdatenblatt / Supplement to the safety data sheet

Abschnitt 1 / Section 1

1.1 Produktidentifikation / Product identification

s. Original-Datenblatt / see original safety data sheet

1.2 Verwendungen des Stoffs / Uses of the substance

s. Original-Datenblatt / see original safety data sheet

1.3 Einzelheiten zum Lieferanten / Details of the supplier

Firmenname /	Supplier	Stürmer Maschinen GmbH,
Straße /	Street	Dr.-Robert-Pfleger-Str. 26,
Ort /	City	D-96103 Hallstadt
Tel. /	Phone	+49 (0)951 96555 - 0 (07:00 - 17:00 Uhr / 07:00 am - 05:00 pm)
E-Mail /	E-Mail	info@stuermer-maschinen.de

1.4 Notrufnummer / Emergency Telephone

Wählen Sie die passende Notrufnummer anhand des GHS-Symbols auf Ihrem Gefahrgut oder entsprechend Abschnitt 2.2 des orig. Sicherheitsdatenblattes *.
Call the appropriate emergency number using the GHS symbol on your dangerous goods or according to section 2.2 of the original safety data sheet *.

GHS Gefahren-piktogramm / GHS symbol	GHS-Kürzel/ GHS-no.	Mögliche Signalwörter/ Warning	Gefährdungsklassen / Description of hazards	Notrufnummer */ Emergency Phone *
	GHS01 bis GHS09			+49 (0)951 96555 - 590 Sammelnotrufnummer Gefahrstoffe
	GHS01	Gefahr oder Achtung / Danger or Attention	Explosive Stoffe/Gemische und Erzeugnisse mit Explosivstoff, selbstzersetzliche Stoffe/Gemische, organische Peroxide / Explosive substances / mixtures and products containing explosives, self-reactive substances / mixtures, organic peroxides	- 591
	GHS02	Gefahr oder Achtung / Danger or Attention	Selbstzersetzliche Stoffe/Gemische, organische Peroxide, entzündbare Gase, Aerosole Flüssigkeiten, Feststoffe, selbsterhitzungsfähige Gemische, pyrophore Flüssigkeiten und Feststoffe, Stoffe/Gemische, die bei Berührung mit Wasser entzündbare Gase bilden / Self-reactive substances / mixtures, organic peroxides, flammable gases, aerosols, liquids, solids, self-heating mixtures, pyrophoric liquids and solids, substances / mixtures which form flammable gases on contact with water	- 592
	GHS03	Gefahr oder Achtung / Danger or Attention	Oxidierende Gase, Flüssigkeiten, Feststoffe / Oxidizing gases, liquids, solids	- 593
	GHS04	Achtung / Attention	Verdichtete, verflüssigte, gelöste und tiefgekühlt verflüssigte Gase / Compressed, liquefied, dissolved and refrigerated liquefied gases	- 594
	GHS05	Gefahr oder Achtung / Danger or Attention	Verätzung der Haut, schwere Augenschäden, auch metallkorrosive Eigenschaften / Chemical burns to the skin, severe eye damage, also metal-corrosive properties	- 595
	GHS06	Gefahr / Danger	Äußerst schwere und schwere akute Gesundheitsschäden oder Tod / Extremely severe and severe acute damage to health or death	- 596
	GHS07	Achtung / Attention	Akute Gesundheitsschäden, Reizung der Haut, der Augen und der Atemwege, Sensibilisierung der Haut, narkotisierende Wirkungen / Acute damage to health, irritation of the skin, eyes and the respiratory tract, sensitization of the skin, narcotic effects	- 597
	GHS08	Gefahr oder Achtung / Danger or Attention	Chronische Gesundheitsschäden (Organschädigungen) bei einmaliger oder mehrmaliger Exposition, krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkungen, Lungenschäden durch Eindringen von Substanzen in die Lunge (Aspirationsgefahr), Sensibilisierung der Atemwege / Chronic damage to health (damage to organs) after single or multiple exposure, carcinogenic, mutagenic and reproductive effects, lung damage due to the penetration of substances into the lungs (risk of aspiration), sensitization of the respiratory tract	- 598
	GHS09	Achtung oder ohne Signalwort/ Attention or without wording	Giftig für Wasserorganismen mit kurz- und langfristiger Wirkung / Toxic to aquatic organisms with short and long-term effects	- 599

* 07:00 - 17:00 Uhr, außerhalb dieses Zeitraums kann die Nummer auf dem Sicherheitsdatenblatt angerufen werden / 07:00 am - 05:00 pm, outside this time, the number on the safety data sheet can be called

Für alle anderen Informationen siehe Original-Sicherheitsdatenblatt / For all other information, see the original safety data sheet



MATERIAL SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II, and subsequent amendments

Revision date: February 2023

Supersedes: November 2015

Version: 6

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

IP Mellana Oil 220

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

Lubricant for gears

1.3 Safety data sheet vendor details:

italiana petroli S.p.A.

Via Salaria, 1322 - 00138 Roma

Tel. +39 06 8493 1 – FAX +39 06 8493 4758

Competent person in charge of the Safety Data Sheet: sicurezza@gruppoapi.com

1.4 Emergency telephone number:

Centro AntiVeleni Ospedale Pediatrico Bambino Gesù – Tel +39 06 68593726

Centro AntiVeleni Ospedale Univ. Foggia – Numero Verde +39 800183459

Centro AntiVeleni Ospedale Cardarelli – Tel +39 081 7472870

Centro AntiVeleni Policlinico Umberto I – Tel +39 06 49978000

Centro AntiVeleni policlinico Gemelli – Tel +39 06 3054343

Centro AntiVeleni Ospedale Careggi – Tel +39 055 7947819

Centro AntiVeleni Centro Nazionale di Informazione Tossicologica – Tel +39 0382 24444 (24h)

Centro AntiVeleni Ospedale Niguarda – Tel +39 02 66101029

Centro AntiVeleni Ospedale Papa Giovanni XXIII – Numero Verde +39 800883300

Section 2 Hazards identification

2.1 Classification of the substance or mixture

According to current legislation and its amendments the product is not classified as dangerous for humans. See sections 11 and 12 for more detailed information about effects and symptoms on health and environmental hazards.

2.2 Label elements

EUH sentences: EUH 208 – Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction

2.3 Other hazards

Physical/chemical: This product is combustible, but not classified as Flammable. Flammable vapour mixtures generation takes place at temperatures higher than normal ambient levels.

Health: If it is handled or employed at high temperature, the contact with hot product or vapours may cause burns. In case of accidents involving piping under pressure and the like, any material may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to a hospital as soon as possible, to get specialized medical treatment. Do not wait for symptoms to develop.

Environment: None.

Contaminants (air contaminants or other substances): In exceptional cases (i.e long lasting storage in water contaminated tanks, presence of anaerobic sulfate-reducing bacteria colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H₂S. See Section 16

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

Section 3 Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Base mineral oil blend obtained from paraffinic hydrocarbons, severely solvent refined.

Additives and performance improvers



Name	Product identifier	Quantity	Name
Mineral Oil*	(CAS Number) ** (CE Number) ** (UE Index Number) ** (no. REACH) **	98	Not classified
phosphoric acid, mono- and bis esters (branched and linear pentyls)	(CAS Number) N/D (CE Number) 282-784-6 (UE Index Number) N/D (no. REACH) 01-2119979550-30	0.08 – 0.15	Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412
Amines, C10-14-tert-alkyl	(CAS Number) N/D (CE Number) 701-175-2 (UE Index Number) N/D (no. REACH) 01-2119456798-18	0.08 – 0.15	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 ATE [Oral] = 612 mg/kg ATE [Dermal] = 251 mg/kg ATE [Inhalation vapours] = 1.19 mg/l M [Acute] = 1 M [Chronic] = 1
distillates (petroleum), hydrotreated heavy paraffinic (additive diluent) *	(CAS Number) 64742-54-7 (CE Number) 265-157-1 (UE Index Number) N/D (no. REACH) 01-2119484627-25	0.08 – 0.15	Not classified
1,3,4-thiadiazolidin-2,5-dithione, reaction products with hydrogen peroxide and tert-nonantiole	(CAS Number) N/D (CE Number) 293-927-7 (UE Index Number) N/D (no. REACH) 01-2119976351-35	0.02 – 0.05	Aquatic Chronic 3; H412
C16-18-(even numbered, saturated and unsaturated)-alkylamines	(CAS Number) N/D (CE Number) 627-034-4 (UE Index Number) N/D (no. REACH) 01-2119473797-19	0.02 - 0.05	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, system immune, liver) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 ATE [Oral] = 1689 mg/kg STOT RE2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10
methyl-1H-benzotriazole	(CAS Number) 29385-43-1 (CE Number) 249-596-6 (UE Index Number) N/D (no. REACH) 01-2119979081-35	0.002 – 0.005	Acute Tox. 4, H302 Repr. 2, H361d Aquatic Chronic 2, H411 ATE (oral) = 720 mg/kg

* This product has exposition limits specified by working place

** Mineral oil contained can be described by one or more of the following: CAS No. 64742-54-7/64742-65-0, Reg. No. 01-2119484627-25-0025/01-2119484627-25/01-2119471299-27-0019/01-2119471299-27 Distillates (petroleum), hydrotreated heavy paraffinic/Distillates (petroleum), solvent-heavy paraffinic dewax - CAS No. 64742-54-7/64742-65-0, reg. no. 01-2119484627-25-0025/01-2119484627-25/01-2119471299-27-0019/01-2119471299-27 Distillates (petroleum), hydrotreated heavy paraffinic/Distillates (petroleum), solvent-heavy paraffinic dewax - CAS No. 64742-57-0/64742-62-7, reg. no. 01-2119489287-22/01-2119480472-38-0013/01-2119480472-38 Residues (petroleum), hydrotreated/Residues (petroleum), solvent dewaxed - CAS n°64742-01-4 CE n°265-101- 6, reg. no. 01-2119488707-21 Residual oils (petroleum), solvent refined – CAS n°64742-65-0, CE n°265-169-7, reg. 01-



2119471299-27 Distillates (petroleum), solvent-dewaxed heavy paraffinic - CAS n°101316-72-7, EC n°309-877-7, reg. 01-2119489969-06-XXXX Lubricating base oil, CAS n° 101316-72-7, CE n° 309-877-7, reg. n° 01-2119489969-06-0004 Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated, CAS n°101316-69-2, EC n°309-874-0, reg. no. 01-211948694 8-13-0000 Lubricating oils (petroleum), C>25, solvent-extd., deasphalted, dewaxed, hydrogenated, CAS n°94733-15-0, CE n°305-594-8, reg n° . 01-2119486987-11-0000 Lubricating oils (petroleum), C18-40, solvent-dewaxed hydrocracked distillate based.

If the REACH registration numbers do not appear, it means that the substance is exempted from the registration obligation, or does not reach the minimum volume threshold at which the registration obligation is triggered, or the registration date has not yet expired, or this is proprietary information (Legenda of H phrases in section 16)

Section 4 First aid measures

4.1 Description of first aid measures

Skin contact: Take off contaminated clothing and shoes. Wash thoroughly with soap and water.

General indications: Any material in case of accident involving under pressure piping and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.

Eye contact: Immediately wash/irrigate with plenty of water for several minutes, holding the eyelids apart. If irritation or redness persists, seek medical advice.

Inhalation: In case of disturbances owing to long time inhalation of vapours or mists, remove the victim from exposure and take him into a well-ventilated place; if necessary, seek medical attention.

Ingestion: DO NOT INDUCE VOMITING in order to avoid the risk of introduction through airways unless directed to do so by medical personnel. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: This product has a low vapour pressure and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists. In such cases overexposure to vapours may cause irritation to airways, nausea and dizziness.

Symptoms/injuries after skin contact: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. Contact with hot product may cause thermal burns.

Symptoms/injuries after eye contact: Contact with eyes cause irritation. Contact with hot product or vapours may cause burns.

Symptoms/injuries after ingestion: Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Given the organoleptic characteristics of the product, however, ingestion of dangerous quantities is very unlikely.

4.3 Indication for need of immediate medical attention and special treatment

In case of possible inhalation of H₂S (hydrogen sulphide): The casualty must be immediately taken to hospital. Start immediately artificial respiration if breathing has ceased. Administer oxygen if necessary. Seek medical attention in all cases of serious burns.

Section 5 Firefighting measures

5.1 Extinguishing media

Use B Class extinction media, CO₂, dry chemical powder, foam, water fog, sand or earth. Do not use water jets. Water jets must be employed solely to cool the surface exposed to fire.

5.2 Special hazards arising from the substance or mixture

Combustion products breathing must be avoided because, in case of fire, incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO_x, H₂S and SO_x (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.), ZnO_x, PO_x and other potentially hazardous substances.

5.3 Advice for firefighters

Personal protection equipment for firefighters. Self-contained breathing apparatus.



Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid direct contact with skin and eyes by putting on appropriate personal protective equipment.

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. If necessary, heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic nonskid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H₂S), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If necessary, inform the relevant authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Soil: Contain spilled liquid with sand, earth or other suitable absorbents (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Dispose of according to local regulations. Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct water jets. When inside buildings or confined spaces, ensure adequate ventilation.

Water: In case of small spillages in closed waters, contain product with floating barriers or other equipment. If possible, large spillages in open waters should be contained with floating barriers or other suitable mechanical means. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal. Dispose of in accordance with relevant local regulations. Do not use solvents or dispersants, unless specifically advised by an expert and, if required, approved by local authorities. Use of appropriate measures to protect drains is recommended (i.e. rubber mats, etc.). Dispose of in accordance with current legislation.

6.4 Reference to other sections

For further information refer to section 8 and section 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. Do not use compressed air for filling, discharging, or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well-ventilated area. During transfer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build-up of electric charges. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds.

Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Store in a dry, cool and well-ventilated area, away from incompatible materials.



Keep away from heat and direct sunlight. Avoid the build-up of electric charges. Keep container tightly closed and in vertical position. Ensure adequate ventilation.
Storage temperature: Environment

7.3 Specific end use(s)

Not determined.

Section 8 Exposure controls/personal protection

8.1 Control parameters

Index	Substance	Value	Unit of measure	Reference
TLV-TWA	Mineral oil	5	mg/m ³	A.C.G.I.H.
TLV-STEL	Mineral oil	10	mg/m ³	A.C.G.I.H.

(If necessary, refer to limits reported in ACGIH documents)

Mineral oil		
DNEL / DMEL (Workers)		
Long-term - systemic effects, inhalation	= 5,4 mg/m ³ /day (DNEL, Mineral base oil mist)	
DNEL / DMEL (General population)		
Long-term - local effects, inhalation	= 1,2 mg/ m ³ /day (DNEL, Mineral base oil mist)	

Amines, C10-14-tert-alkyl		
DNEL / DMEL (General population)		
oral exposure	= 0,35 mg/ kg/BW/day	

C16-18-(even numbered, saturated and unsaturated)-alkylamines		
DNEL / DMEL (Workers)		
Dermal exposure	= 0,09 mg/ kg/BW/day	
DNEL / DMEL (General population)		
oral exposure	= 0,04 mg/ kg/BW/day	

PNEC (additional information)

Critical component	Environmental compartment	Value
Amines, C10-14-tert-alkyl	Fresh water	0,001 mg/l
1,3,4-thiadiazolidin-2,5-dithione, reaction products with hydrogen peroxide and tert-nonantioi	Fresh water	0,041 mg/l
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Fresh water	0, 26 µg/l

8.2 Exposure controls

Appropriate engineering controls

Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds.

Personal protective equipment (for industrial or professional use)

Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.



Respiratory protection

Respiratory protective equipment is not normally required. If the conditions of work and other protection equipment are not adequate to limit the exposure of the workers, the use of other respiratory protective equipment is necessary: masks with filter for organic vapours and for dusts/mists/aerosols.

Hand protection

Use hydrocarbon-resistant, felt-lined gloves. Adequate materials: neoprene, nitrile (NBR) or PVA oil and solvent resistant. Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes and in general at first signs of damages or degradation. Wear gloves only after accurate hand cleaning-up. If necessary, refer to the UNI-EN 374 standard.

Eye protection

When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield). If necessary, refer to national standards or to the UNI-EN 166 standard.

Skin and body protection

Wear suitable protective clothing (trousers always external to safety shoes or boots). Replace clothes immediately in case of contamination and accurately launder them before use it again. Work clothes should be laundered on a regular basis. Keep good hygiene and work clothes cleanliness. If necessary, refer to the UNI-EN 465/466/467 standards. Use appropriate protective equipment according to the package to be handled, so that to ensure protection from crush (antistatic non-skid safety shoes or boots, chemical resistant, if necessary, heat resistant and insulated).

Specific hygiene measures

Always keep standard hygiene measures. Wash hands thoroughly after handling chemical products or their containers before eating, drinking or smoking. Do not clean hands with dirty or oil-soaked rags. Do not keep dirty rags in the overall pockets. Launder work clothes and protection equipment on a regular basis to remove any contaminants. Do not re-use clothes, if they are still contaminated. A good general cleaning must be common practice

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Properties	U. di M.	Data
Physical state, Colour	Appearance	Liquid, Amber color
Odour	Organoleptic test	Typical
Odour threshold		There are no data available on the preparation
Freezing point / fusion point	°C	-21
Initial boiling point	°C	> 200
Flammability		Flammable
Explosive limits	g/m3	LEL≥45 (aerosol)
Flash point	°C	> 225
Self ignition temperature	°C	> 300
Decomposition temperature	°C	Not applicable
pH		Not applicable
Viscosity at 40°C	mm ² /s	214,0-226,0
Solubility		Insoluble in water
Partition coefficient: n-octanol/ water		No data available
Vapour pressure	hPa (20°C)	≤ 0,1 (Mineral oil)
Density and/or Relative density		0,910



particle characteristics		No data available
Vapour density		Not applicable

9.2 Other information

Density at 15 °C	kg/dm ³	0,910
VOC contents	%	0
Pour Point	°C	-21
Viscosity at 100 °C	mm ² /s	18,7

9.2.1 Information relating to classes of physical hazards

No data available

Section 10 STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive

10.2 Chemical stability

The product is normally stable at environment temperature and pressure

10.3 Possibility of hazardous reactions

No dangerous reactions are foreseeable (in normal conditions of storage and handling). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. A mixture with nitrates or other strong oxidisers (e.g. chlorates, perchlorates, liquid oxygen) may create an explosive mass.

10.4 Conditions to avoid

High temperatures.

10.5 Incompatible materials

Strong oxidants.

10.6 Hazardous decomposition products

In exceptional cases (prolonged storage in tanks contaminated with water, presence of sulfur-reducing anaerobic bacteria), the product can degrade developing small quantities of sulfur compounds, including H₂S.

Section 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Component	Result	Species	Dose	Exposure
phosphoric acid, mono- and bis esters (branched and linear pentyls)	LD50 Oral	Rat	>2000 mg/kg	-
Amines, C10-14-tert-alkyl	LC50 For inhalation Vapors	Rat	1.19 mg/l	4 h
	LD50 Dermal	Rat	251 mg/kg	-
	LD50 Oral	Rat	612 mg/kg	-
distillates (petroleum), paraffinic heavy 'hydrotreating'	LC50 For inhalation Vapors	Rat	>5.53 mg/l	4 h
	LD50 Dermal	Rabbit	> 5000 mg/kg	-
	LD50 Oral	Rat	> 5000 mg/kg	-
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioi	LC50 For inhalation Vapors	Rat	>2.75 mg/l	4 h
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-



C16-18-(even numbered, saturated and unsaturated)-alkylamines	LD50 Oral	Rat	1689 mg/kg	-
methyl-1H-benzotriazole	LC50 For inhalation Vapors	Rat	>1730 mg/m ³	1 h
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	720 mg/kg	-

Skin corrosion/irritation

Not classified (On the base of available data, the classification criteria are not met) (according to composition).

Component	Test	Species	Result
Amines, C10-14-tert-alkyl	Unavailable	Rabbit	Skin - Visible necrosis
	Unavailable	Rabbit	Eyes - Visible necrosis
distillates (petroleum), paraffinic heavy 'hydrotreating'	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Does not irritate
	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Does not irritate
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Does not irritate
	405 Acute Eye Irritation/Corrosion	Rabbit	Skin - Mild irritant
C16-18-(even numbered, saturated and unsaturated)-alkylamines	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Visible necrosis
methyl-1H-benzotriazole	404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Does not irritate
	405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Does not irritate

Serious eye damage/irritation Not classified (On the base of available data, the classification criteria are not met) (according to composition). Causes serious eye irritation based on test data for the product concerned or similar products

Respiratory or skin sensitisation Not classified (On the base of available data, the classification criteria are not met) (according to composition). Possible sensitization of the skin can occur in the constant use of the product without the use of the necessary means of protection.

Component	Test	Exposure	Species	Result
Amines, C10-14-tert-alkyl	Unavailable	Skin	Guinea pig	Sensitizer
distillates (petroleum), paraffinic heavy 'hydrotreating'	406 Skin Sensitization	Skin	Guinea pig	does not cause sensitization
				does not cause sensitization
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	406 Skin Sensitization	Skin	Guinea pig	does not cause sensitization
				does not cause sensitization
methyl-1H-benzotriazole	406 Skin Sensitization	Skin	Guinea pig	does not cause sensitization

Germ cell mutagenicity Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Component	Result	Esperimento	Result
phosphoric acid, mono- and bis esters (branched and linear pentyls)	471 Bacterial Reverse Mutation Test	Test: In vitro Subject: Bacteria	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	Test: In vitro Subject: Mammal - Animal	Negative



Amines, C10-14-tert-alkyl	471 Bacterial Reverse Mutation Test	Test: In vitro Subject: Bacteria	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	Test: In vitro Subject: Mammal - Animal	Negative
distillates (petroleum), paraffinic heavy 'hydrotreating'	471 Bacterial Reverse Mutation Test	Test: In vitro Subject: Bacteria	Negative
	473 In vitro Mammalian Chromosomal Aberration Test	Test: In vitro Subject: Mammal - Animal	Negative
	476 In vitro Mammalian Cell Gene Mutation Test	Test: In vitro Subject: Mammal - Animal	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Test: In vitro Subject: Mammal - Animal	Negative
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	471 Bacterial Reverse Mutation Test	Test: In vitro Subject: Bacteria	Negative
	473 In vitro Mammalian Chromosomal Aberration Test	Test: In vitro Subject: Mammal - Animal	Negative
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Unavailable	Test: In vitro Subject: Bacteria	Negative
methyl-1H-benzotriazole	471 Bacterial Reverse Mutation Test	Test: In vitro Subject: Bacteria	Negative
	474 Mammalian Erythrocyte Micronucleus Test	Test: In vivo Subject: Mammal - Animal	Negative

Carcinogenicity Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Component	Test	Species	Result
distillates (petroleum), paraffinic heavy 'hydrotreating'	451 Carcinogenicity Studies (Exposure : 78 weeks)	Mouse	Negative - Dermal - NOAEL

Reproductive toxicity Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Component	Test	Exposure	Species	Maternal toxicity	Fertility	Toxic for development
phosphoric acid, mono- and bis esters (branched and linear pentyls)	422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative
Amines, C10-14-tert-alkyl	415 One-Generation Reproduction Toxicity Study	Oral	Rat	Positive	Negative	Negative
distillates (petroleum), paraffinic heavy 'hydrotreating'	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative
C16-18-(even numbered, saturated and unsaturated)-alkylamines	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative
methyl-1H-benzotriazole	421 Reproduction/ Developmental Toxicity Screening Test	Oral	Rat	Negative	Negative	Negative



Specific target organ toxicity (single exposure) Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Long-chain alkenyl amine Cat.3 - Irritation of the respiratory tract

Component	Category	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Cat. 3	Respiratory tract irritation

Specific target organ toxicity (repeated exposure) Not classified (On the base of available data, the classification criteria are not met) (according to composition)

Component	Category	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Cat. 2	Gastrointestinal tract, immune system, liver

Aspiration hazard Not classified (On the base of available data, the classification criteria are not met) Viscosity, kinematic: > 20,5 mm²/s (40 °C) (ASTM D 445)

Component	Result
C16-18-(even numbered, saturated and unsaturated)-alkylamines	DANGER IN CASE OF SUCTION – Cat. 1

11.2 Information on other hazards

11.2.1 Properties of interference with the endocrine system

None. The mixture does not contain a substance(s) included in the list established in accordance with Article 59(1) of REACH for possessing endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by the Delegated Regulation (EU) 2017/2100 of the Commission or by the Regulation (EU) 2018/605 of the Commission.

Section 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Component	Result	Species	Exposure
phosphoric acid, mono- and bis esters (branched and linear pentyls)	Acute EC50 >100 mg/l	Alghe – Pseudokirchneriella subcapitata	72 h
	Acute EC50 56 mg/l	Dafnia - Daphnia magna	48 h
	Chronic EC10 24 mg/l	Alghe – Pseudokirchneriella subcapitata	72 h
Amines, C10-14-tert-alkyl	Acute EL50 0.44 mg/l	Alghe – Pseudokirchneriella subcapitata	72 h
	Acute EL50 2.5 mg/l	Dafnia - Daphnia magna	48 h
	Acute EL50 63.5 mg/l	Micro organism	30'
	Acute LL50 1.3 mg/l	Pesce - Oncorhynchus mykiss	96 h
	Chronic NOEC 0.078 mg/l	Pesce - Oncorhynchus mykiss	96 days
	Chronic NOEL 0.05 mg/l	Alghe – Pseudokirchneriella subcapitata	72 h
	distillates (petroleum), paraffinic heavy 'hydrotreating'	Acute EL50 >10000 mg/l	Dafnia - Daphnia magna
Acute LL50 >100 mg/l		Pesce - Pimephales promelas	96 h
Chronic NOEL ≥100 mg/l		Alghe - Pseudokirchneriella subcapitata	72 h
Chronic NOEL 10 mg/l		Dafnia - Daphnia magna	21 days
Chronic NOEL 1000 mg/l		Pesce - Oncorhynchus mykiss	14 days
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	Acute EL50 100 mg/l	Alghe - Pseudokirchneriella subcapitata	72 h
	Acute EL50 41 mg/l	Dafnia - Daphnia magna	48 h
	Acute LL50 1000 mg/l	Pesce - Pimephales promelas	96 h
	Chronic EL10 100 mg/l	Alghe - Pseudokirchneriella subcapitata	72 h
	Acute EL50 0.04 mg/l	Alghe - Selenastrum capricornutum	96 h



C16-18-(even numbered, saturated and unsaturated)- alkylamines	Acute EL50 0.011 mg/l	Dafnia - Daphnia magna	48 h
	Acute EL50 222.5 mg/l	Micro organism	3 ore
	Acute LL50 0.06 mg/l	Pesce - Pimephales promelas	96 h
	Chronic NOEL 0.01 mg/l	Alghe - Selenastrum capricornutum	96 h
	Chronic NOEL 0.013 mg/l	Dafnia - Daphnia magna	21 days
methyl-1H-benzotriazole	Acute EL50 75 mg/l Fresh water	Alghe - Pseudokirchneriella subcapitata	72 h
	Acute EL50 8.58 mg/l Fresh water	Dafnia - Daphnia galeata	48 h
	Acute EL50 1060 mg/l	Micro organism	24 h
	Acute LL50 180 mg/l Fresh water	Pesce - Danio rerio	96 h
	Chronic EL10 1.18 mg/l Fresh water	Alghe - Desmodesmus subspicatus	72 h
	Chronic EL10 0.4 mg/l Fresh water	Dafnia - Daphnia galeata	21 days

12.2 Persistence and degradability

Use the product according to good working practice; it must not be dispersed into the environment. Although not readily available, the product is inherently biodegradable; moderately persistent, especially under anaerobic conditions.

Component	Test	Result
phosphoric acid, mono- and bis esters (branched and linear pentyls)	301B Ready Biodegradability - CO ₂ Evolution Test	45 % - Not easily - 28 days
Amines, C10-14-tert-alkyl	OECD 301D Ready Biodegradability - Closed Bottle Test	21.8 % - Not easily - 28 days
distillates (petroleum), paraffinic heavy 'hydrotreating'	OECD 301F Ready Biodegradability - Manometric Respirometry Test	31 % - Not easily - 28 days
1,3,4-thiadiazolidin-2,5-dithione, reaction products with water oxygenated and tert-nonantioI	OECD 301C Ready Biodegradability - Modified MITI Test (I)	2 % - Not easily - 28 days
C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 301B Ready Biodegradability - CO ₂ Evolution Test	66 % - Easily - 28 days
methyl-1H-benzotriazole	OECD 301F Ready Biodegradability - Manometric Respirometry Test	4 % - - Not easily - 28 days

12.3 Bioaccumulative potential

Being poorly soluble in water, its bioavailability to aquatic organisms is minimal and therefore bioaccumulation appears unlikely

Component	LogPow	Potential
Amines, C10-14-tert-alkyl	2.9	Low

12.4 Mobility in soil

Datas not available

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6 Properties of interference with the endocrine system

Endocrine-disrupting properties [Article 57(f), environment]: None known, The mixture does not contain any substance(s) on the list established in accordance with Article 59(1) of REACH for possession of endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

None.



Section 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Exhausted products (and emulsions) and empty containers must be delivered to a qualified official collector, in accordance with local/national regulations. For further information on the disposal, address to: CONSORZIO OBBLIGATORIO DEGLI OLI USATI", free phone number +39 800 863 048

13.2 European waste catalogue (EWC) 13 02 05 This EWC code is only a general indication and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the most suitable EWC code, considering the practical use of the product, its alterations and contaminations during its life.

Section 14 TRANSPORT INFORMATION

14.1 UN number

Non dangerous good according to transport regulation

14.2 UN proper shipping name

ADR/RID Not applicable
ADN Not applicable
IMDG Not applicable
IATA Not applicable

14.3 Transport hazard class(es)

ADR/RID Not applicable
ADN Not applicable
IMDG Not applicable
IATA Not applicable

14.4 Packing group

ADR/RID Not applicable
ADN Not applicable
IMDG Not applicable
IATA Not applicable

14.5 Environmental hazards

ADR/RID Not applicable
ADN Not applicable
IMDG Not applicable
IATA Not applicable

14.6 Special precautions for user

Classification requirements must be checked before shipping the material at high temperature.

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

None

Section 15 REGULATORY INFORMATION

15.1 Applicable reference legislation (National laws and regulations)

Legislative Decree No. 81 of 9/4/2008 and subsequent amendments and additions: Implementation of Article 1 of the Law of 3 August 2007, no. 123, regarding the protection of health and safety in the workplace

D. Lgs. 105/2015 : implementation of EU directive 2012/18 on risk monitoring of major accidents involving dangerous substances

D.Lgs 152/06 : "Environmental Standards" and later amendments and additions

D. Lgs 151/2011 (consolidated text of legal rules about protection and support of motherhood and fatherhood)

D.Lgs. 95/92 : : "Implementation of EU directive 75/439 and 87/101 about exhausted oils disposal"

Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE,

95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace)



Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work).
Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding)
UE Directives 96/82 and 2003/105 (Risk control of major accidents involving specific dangerous substances)
Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds)
EU Directive 2006/8 of the 23/01/2006 amending Annexes II, III and V of EU Directive 1994/45 ex European Parliament and The European Council about the approximation of laws, regulations and administrative provisions of Member States about classification, packaging, and labelling of dangerous substances
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). (et sequens).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008: CLP Regulation (classification, labelling and packaging of substances and mixtures),
Regulation (CE) n°453/2010
Regulation (UE) n°830/2015
Regulation (UE) n°878/2020
Regulation (EC) n. 1907/2006, Article 59 (1) REACH. Candidate List (SVHC): None present or none present in regulated quantities.
Regulation (EC) n. 1907/2006, REACH Annex XIV - Substances subject to authorization, as amended: None present or none present in regulated quantities.
Regulation (EC) n. 1907/2006 Annex XVII - Substances subject to restrictions on placing on the market and use: None present or none present in regulated quantities.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

Section 16 OTHER INFORMATION

The totality of mineral oils contained in this product has a value less than 3 % p of DMSO extract, according to IP 346/92 (Note L – EU Directive 94/69 – Reg (EU) 1272/2008

Text of H sentences quoted in section 3.2 of this data sheet

H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin
H314 It causes serious skin burns and serious eye injuries
H317 can cause an allergic skin reaction
H318 Causes serious eye damage.
H319 Causes serious eye irritation
H330 Fatal if inhaled
H335 May cause respiratory irritation
H361D Suspected of damaging the unborn child
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.

(These sentences are introduced for informational purposes and they DO NOT REFER to product classification)

NOTES

Do not employ the product for purposes other than those listed in this Data Sheet in Section 1.2. In case of other uses the user may be exposed to unpredictable dangers. In case the information quoted herebelow show a potential risk or a dangerous component relevant instructions will have to be provided to employees and to the users, and all the required precautions must be taken. The information used to certify the state of compliance of this product may deviate from chemical information mentioned in Section 3.

Liability

The information provided is compiled to the best of our knowledge, however its nature is informative and does not constitute a guarantee, for which the supplier company assumes no responsibility. No responsibility can be attributed to **Italiana Petroli S.p.A.** for damages to the buyer or to third parties deriving from incorrect use of the product. All risks deriving from the use of the product are borne by the user, since the methods of use are beyond our control, consequently



no guarantees of any kind and nature are granted. We do not accept responsibility for any damages deriving from the use of this information for purposes other than those mentioned.

Scope

The information contained in this safety data sheet is provided for the purpose of protecting health and safety in the workplace. The information contained herein refers only to the product indicated and may not be valid if the product is used in combination with others or in processing. This document does not replace the chemical risk analysis which remains the responsibility of the employer. All information is to the best of our knowledge at the date of issue of this form.

This data sheet has been compiled following the guidelines for the drafting of safety data sheets for lubricant products created by the Group of Industrial Lubrication Companies (GAIL).

Date of issue/Date of revision

Product name: **IP Mellana Oil 220**

Date of revision: February 2023

Version: 6

Sections involved in this release

- Section 1
- Section 2
- Section 3
- Section 8
- Section 9
- Section 11
- Section 12
- Section 15
- Section 16

Abbreviations and acronyms:

N/A = Not Applicable

N/D = Not Available

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

ACGIH = American Conference of Governmental Industrial Hygienists

API = American Petroleum Institute

CAS = Chemical Abstracts Service (division of American Chemical Society)

CLP = Classification, Labelling and Packaging Regulation

CSR = Chemical Safety Report

DNEL = Derived No Effect Level

DMEL = Derived Minimum Effect Level

EC50 = Effective Concentration, 50%

EL50 = Effective Loading, 50 %

EPA = Environmental Protection Agency

GefStoffVO = Regulation on dangerous substances in Germany

IATA= International Air Transport Association

IATA-DGR = Regulation on dangerous goods of (IATA) Association for International Air Transport

ICAO = Civil Aviation International Organisation

ICAO-TI = Technical instructions from the "Civil Aviation International Organisation"

IMDG = International Maritime Dangerous Goods

INCI = International naming of cosmetic ingredients

KSt = Explosion coefficient

IC50 = Inhibition Concentration, 50%

LC50 = Lethal Concentration, 50%

LD50 = Lethal Dose, 50%

LL50 = Lethal Loading, 50%

LOAEL = Low Observed Adverse Effects Level

LTE = Long-term exposure

NOEL = No Observed Effects Level



NOAEL = No Observed Adverse Effects Level

OECD = Organization for Economic Cooperation and Development

PNEC = Predicted No-Effect Concentration

PBT = Persistent, Bioaccumulative, Toxic

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

STE = Short-term exposure

STOT = Single Target Organ Toxicity

(STOT) RE = (Single Target Organ Toxicity) Repeated exposure

(STOT) SE = (Single Target Organ Toxicity) Single exposure

TLV[®]TWA = Threshold Limit Value[®] – Time-Weighted Average

TLV[®]STEL = Threshold Limit Value[®] – Short Term Exposure Limit

UVCB = Substance of Unknown or Variable composition, Complex reaction products or Biological materials

VOC= Volatile Organic Compounds vPvB = very Persistent, very

Bioaccumulative WAF = Water Accommodated Fraction

WGK =Danger classification for waters (Germany)