SAFETY DATA SHEET

(In accordance with 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)

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

1.1. Product identifier

Trade name: Jasol RC 220.

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

Relevant identified uses: Guide oil.

Uses advised against: Other uses are not recommended.

1.3. Details of the supplier of the safety data sheet

Supplier: Flukar Sp. z o.o.
Address: 40-007 Katowice, ul. Uniwersytecka 13
Telephone/Fax: (+48) 32 700 22 50
E-mail: info@flukar.eu

E-mail address of competent person responsible for SDS: serwis@flukar.eu

1.4. Emergency telephone number

Company contact phone no. in working hours from 7.00 a.m. till 3.00 p.m. (+48) 32 700 22 50
In case of emergency: 112 (Emergency number)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008 (CLP) as amended:

The product does not meet the classification criteria for any hazard class in accordance to Regulation (EC) No 1272/2008 [CLP] on classification, labelling and packaging of substances and mixtures**.**

2.2. Label elements

Hazard pictograms: None.

Signal words: None.

Hazard statements: None.

Precautionary statements: None.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Substance name	CAS No / EC No	REACH registration number	[% wt.]	Classification according to EC Directive No.1272/2008 (CLP)
Distillates (petroleum), hydrotreated heavy paraffinic	265-157-1	01-2119484627-25-XXXX	> 90	the substance is not classified as hazardous

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

SECTION 4. First aid measures

4.1. Description of first aid measures

Skin contact: take off all contaminated clothing. Wash the contaminated skin thoroughly with plenty of water with soap. Consult a doctor if disturbing symptoms appear. Wash contaminated clothing before reuse.
Eye contact: wash the contaminated eyes with plenty of water for about15 minutes. Protect non-irritated eye, remove contact lenses. WARNING: do not use powerful water stream – risk of cornea damage. Consult a doctor, if disturbing symptoms appear.
Ingestion: do not induce vomiting. Never give anything to drink to an unconscious person. Consult a doctor immediately – show the container or label.
Inhalation: remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms appear

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: symptomatical treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media: water jets. There is a danger of burning liquid spreading on the surface of water. In case of tanks possible burst of burning product with great force.

5.2. Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. of carbon oxides, nitrogen oxides, sulfur oxides and other unidentified products of thermal decomposition of higher hydrocarbons.Do not inhale combustion products, they can be dangerous for human health.

5 .3. Advice for fire fighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Collect used extinguishing media. Do not allow the extinguishing water to contaminate the sewage system, surface and ground waters. In case of fire, cool endangered containers with water spray from a safe distance.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large spills, isolate the exposed area. Do not breathe vapours. Avoid skin and eyes contamination. Use personal protective equipment. Warning: the spilled product may form a slippery surface. Ensure adequate ventilation.
For emergency responders: ensure that only the trained personnel removes the effects of the accident. Use personal protective equipment.

6.2. Environmental precautions

Prevent the product from penetrating drains, waters or soil. If it is possible and safe, stop or limit product release, seal, shut off the fluid source, place the damaged container in an emergency container. Limit spreading of the great leakages by embanking the area.
Notify respective authorities in the case of release of large quantities of the product and environmental pollution.

6.3. Methods and material for containment and cleaning up

Large leakage: embank the places where the liquid accumulates, pump out the collected liquid.
Small leakage: place damaged packaging in a tightly closed replacement packaging. Absorb leakage with liquid absorbing materials (e.g. sand, earth, diatomaceous earth, vermiculite) and place it in waste container. Treat the collected material as waste. Clean the contaminated surface with water and properly ventilate it.

6.4. Reference to other sections

For information on appropriate personal protection equipment see Section 8.
For information regarding waste disposal see Section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when working. Avoid skin and eyes contamination. Do not breathe vapours. Do not let the product into the mouth. Before each break and after work wash hands carefully. Ensure adequate ventilation. Use personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

In a place of use and storage of the product, provide easy access to emergency equipment(in case of fire, release, etc.). Store should be stored 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 against mechanical contamination and water accumulation. Keep away from strong oxidisers.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Mineral oils (liquid phase of aerosol)*
TLV-TWA: 5 mg/m3,
TLV-STEL: - mg/m3,
TLV-C: –
*In conditions when vapours and fumes are formed - not applicable.
DNEL, PNEC – no data available for the mixture

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)

Concentration limits of substances in biological material: not determined.

8.2. Exposure controls

8.2.1 Appropriate engineering controls

It is necessary to apply local exhaust ventilation, which removes vapours from places of emission as well as the general ventilation of rooms. Suction holes at local ventilation should be below or directly at the working level. The exhausts for air from general ventilation should be placed both on the floor and in the top part of the room. The electrical and lighting installation should be explosion-proof. Ground all equipment (including storage tanks) used to handle with the product. Use non-sparking tools.

8.2.2 Individual protection measures, such as personal protective equipment

Eye / face protection

Tight safety eyeglasses (goggles) in the case of prolonged exposure or the risk of liquid splashing to the eye.

Skin protection

Hand protection: protective gloves are required to protect against petroleum products made of nitrile rubber or other gloves authorized by the manufacturer of gloves for work with this type of product.
Body protection: work clothing is required, oil-resistant, anti-slippery shoes are recommended.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Not applicable

8.2.3 Environmental exposure controls

Consider using precautionary measures in order to protect the area around storage tanks.
Follow the standards regarding the permissible enviromental pollution identified in the regulations in force.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance	: Liquid.
b) Colour	: Amber
c) Odour	: Characteristic.
d) Melting/solidification temperature	: -10°C.
e) Initial boiling temperature and melting temperature range	: Not determined.
f) Flammability	: Not applicable.
g) Upper/lower flammability or explosive limits	: Not applicable.
h) Flash point	: 200°C.
i) Auto-ignition temperature	: Not determined.
j) Decomposition temperature	: Not determined.
k) pH	: Not applicable.
l) Viscosity at 40°C, [mm^2/s]	: 198,0 – 242,0.
m) Solubility	: Insoluble in water. Soluble in hydrocarbon solvents.
n) Distribution coefficient n-octanol/ water	: Not determined.
o) Vapour pressure	: Not relevant.
p) Relative density	: approx. 0,88 g/cm^3, at 15°C.
q) Vapour density	: Not relevant.
r) Characteristics of molecules	: Not applicable.

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Not applicable.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions know.

10.4. Conditions to avoid

High temperature, open flame and other ignition sources.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

No decomposition when it is used as intended. Thermal decomposition products formed during a fire can be hazardous – see subsection 5.2 of the safety data sheet.

SECTION 11: Toxicological information

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

Acute toxicity:

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

Skin corrosion/irritation:

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

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. Based on L Note the substance is not classified as carcinogenic (DMSO extract content (according to IP 346) < 3%).

Reproductive toxicity:

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

STOT – single exposure:

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

STOT – repeated exposure:

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

Aspiration hazard:

Based on available data, the classification criteria are not met. Viscosity > 20.5 mm^2 /s at 40℃.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not applicable.

11.2.2 Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Not applicable.

12.7 Other adverse effects

Product not classified as harmful to aquatic life with long lasting effects. 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

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.
Do not dispose to water reservoir and sewage sludge. Avoid contamination of water and soil with concentrated product.
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.

SECTION 14: Transport information

The product is not subject to regulations on the transport of dangerous goods contained in ADR (road transport), RID (rail transport), IMDG (sea transport), ICAO / IATA (air transport).

14.1.	**UN number or ID 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 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

- Commission Regulation (EU) 2015/830 dated 28 May 2015 amending Regulation (EC) No 1997/2006 of the European Parliament and of the Council dated 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No. 1272/2008 of the European Parliament and of the Council dated 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 (Official Journal of the European Union L 353, 31.12.2008, as amended).
- Regulation of the Minister of Economy, Labour and Social Policy dated 31 March 2003 on essential requirements for personal protective equipment (Journal of Laws 03.80.725) as amended.
- Regulation of the Minister of Labour and Social Policy dated 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018 item 1286).
- Regulation of the Minister of Health dated 2 February 2011 on tests and measurements of harmful factors for health in the working environment (Journal of Laws No. 33, item 166).
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council dated 18 December 2006 on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishment of the 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 (Corrigendum in Official Journal of the European Union L 136, 29.5.2007, as amended).
- Act dated 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011 No. 63, item 322, as amended).
- Regulation of the Minister of the Environment dated 9 December 2014 on the waste catalogue (Journal of Laws of 29 December 2014, item 1923).
- Regulation of the Minister of Health dated 30 December 2004 on health and safety at work related to the occurrence of chemical agents at work (Journal of Laws 2016, item 1488).
- Act dated 14 December 2012 on waste (Journal of Laws No. 217, item 21).- Act of 13 June 2013 on management of packaging and packaging waste (Journal of Laws No. 2013, item 888)

- Regulation of the Minister of the Environment of 27 September 2001 on the waste catalogue (Journal of Laws No. 112, item 1206, as amended).

15.2. Chemical safety assessment

A chemical safety assessment is not required for the mixture.

SECTION 16: Other information

Update range:

Not applicable.

Abbreviations and acronyms in the Safety Data Sheet

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP The Regulation on classification, labelling and packaging; Regulation (EC) No 1272/2008
DNEL Derived No Effect Level
DPD Dangerous Preparations Directive 1999/45 / EC
DSD Dangerous Substances Directive 67/548 / EEC
EC50 Concentration at which 50% inhibition of growth or growth rate is observed
ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IATA International Air Transport Association
IMDG International Maritime Transport of Dangerous Goods
TLV-TWA Threshold Limit Value
TLV-STEL Threshold Limit Value, Short Term Exposure Limit
TLV-C Ceiling exposure limit
LD50 Dose that will kill 50% of the test animals
LC50 Concentration that will kill 50% of the test animals
PBT Persistent, bioaccumulative, and toxic (substance)
PNEC Predicted No Effect Concentration
RID Regulations Concerning the International Carriage of Dangerous Goods by Rail
UVCB Unknown substances, of Variable Composition, or of Biological Origin
vPvB very Persistent, very Bioaccumulative (substance)

This Safety Data Sheet has been prepared based on data provided by the manufacturers of ingredients the product, according to the national legislation in force at the date of SDS update and owned knowledge. Employees who use the product should be trained on risks for health, hygiene requirements, the use of individual protection measures and actions preventing the accidents.
Safety data sheet 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. 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.