Supersint GM D1 0W-20

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

1.1. Product identifier
Trade name/designation:

Supersint GM D1 0W-20

Article No.:
1237

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
Lubricant

1.3. Details of the supplier of the safety data sheet

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

EMKA Schmiertechnik GmbH
Schmalbachstr. 19
D-74626 Bretzfeld-Schwabbach

Telephone: +49 7946 944700
Telefax: +497946 9447070
E-mail: info@emka-oil.de
Website: www.emka-oil.de

E-mail (competent person): info@emka-oil.de

1.4. Emergency telephone number
0551 19240 (24h/DE/EN) Giftinformationszentrum-Nord

SECTION 2: Hazards identification

* ### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* ### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts. May produce an allergic reaction.

Precautionary statements: none

2.3. Other hazards
No data available

SECTION 3: Composition/information on ingredients

* **3.2. Mixtures**

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-54-7 **EC No.:** 265-157-1	**Distillates (petroleum), hydrotreated heavy paraffinic** Asp. Tox. 1 (H304) **Danger**	45 – ≤ 75.1 weight-%
CAS No.: 722503-68-6 **EC No.:** 682-816-2	**Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts** Skin Sens. 1B (H317) **Warning**	0 – < 0.22 weight-%
CAS No.: 121158-58-5 **EC No.:** 310-154-3 **Index No.:** 604-092-00-9 **REACH No.:** 01-2119513207-49	**Phenol, dodecyl-, branched** *Candidate List of Substances of Very High Concern for Authorisation!* Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Repr. 1B (H360F), Skin Corr. 1C (H314) **Danger** M-factor (acute): 10 M-factor (chronic): 10	0 – < 0.03 weight-%

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

SECTION 4: First aid measures

* **4.1. Description of first aid measures**

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air. Consult a doctor immediately.

In case of skin contact:
Consult a doctor immediately.

After eye contact:
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:
Rinse mouth thoroughly with water. Consult a doctor immediately. Rinse mouth. Get medical advice/ attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:
First aider: Pay attention to self-protection!

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

No known symptoms to date.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.
The formation of combustible vapours is possible at temperatures above: Flash point

Hazardous combustion products:
Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx),
During heating or in case of fire, toxic gases is possible. In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

*
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Use personal protection equipment. Special danger of slipping by leaking/spilling product. Remove persons to safety. Avoid breathing dust/fume/gas/mist/vapours/spray.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:
Remove persons to safety.

6.1.2. For emergency responders
Personal protection equipment:
Use personal protection equipment. Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up
For containment:
Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

6.5. Additional information
Clear spills immediately. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Protective measures
Advices on safe handling:
Personal protection equipment: see section 8 When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination. Wear personal protection equipment (refer to section 8).

Fire prevent measures:
No special fire protection measures are necessary.

Environmental precautions:
See section 8.

Advices on general occupational hygiene
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:
Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.
Keep/Store only in original container.

Hints on storage assembly:
not required

Storage class (TRGS 510, Germany): 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Store in a cool dry place. Keep away from heat.

7.3. Specific end use(s)

Recommendation:
Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	diphenylamine **CAS No.:** 122-39-4 **EC No.:** 204-539-4	① 5 mg/m³ ② 10 mg/m³ ⑤ (kann über die Haut aufgenommen werden) DFG, Y, H

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1	2.73 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1	5.58 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1	0.97 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	DNEL value	① DNEL type ② Exposure route
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) **CAS No.:** 4259-15-8 **EC No.:** 224-235-5	6.6 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts **CAS No.:** 68784-31-6 **EC No.:** 272-238-5	2.93 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	44.18 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.25 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	166 mg/kg	① DNEL worker ② Acute – dermal, systemic effects

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1	9.33 mg/kg bw/day	① PNEC secondary poisoning
Distillates (petroleum), solvent-refined heavy paraffinic **CAS No.:** 64741-88-4 **EC No.:** 265-090-8	9.33 mg/kg	① PNEC secondary poisoning
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts **CAS No.:** 68784-31-6 **EC No.:** 272-238-5	4 µg/L	① PNEC aquatic, freshwater
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts **CAS No.:** 68784-31-6 **EC No.:** 272-238-5	4.6 µg/L	① PNEC aquatic, marine water
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.074 µg/L	① PNEC aquatic, freshwater
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.0074 µg/L	① PNEC aquatic, marine water
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	100 mg/L	① PNEC sewage treatment plant
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.226 mg/kg	① PNEC sediment, freshwater
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.0266 mg/kg	① PNEC sediment, marine water
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3	0.37 µg/L	① PNEC aquatic, intermittent release

* **8.2. Exposure controls**

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

During transfer: Eye glasses with side protection
Wear eye/face protection. EN 166

Skin protection:

Hand protection
Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)
Thickness of the glove material: ≥ 0,4 mm
Breakthrough time: 480 min

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Usually no personal respirative protection necessary. Filtering device with filter or ventilator filtering device of type: A

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits:
OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³

SECTION 9: Physical and chemical properties

* **9.1. Information on basic physical and chemical properties**

Appearance

Physical state: Liquid
Colour: tawny
Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not determined*		
Melting point	*not determined*		
Freezing point	-48 °C		
Initial boiling point and boiling range	*not determined*		
Decomposition temperature	*not determined*		
Flash point	236 °C		
Evaporation rate	*not determined*		
Auto-ignition temperature	*not determined*		
Upper/lower flammability or explosive limits	*not determined*		
Vapour pressure	*not determined*		
Vapour density	*not determined*		
Density	843 kg/m³	15 °C	
Relative density	*not determined*		

Parameter	Value	at °C	① Method ② Remark
Bulk density	*not determined*		
Water solubility	*not determined*		
Partition coefficient: n-octanol/water	*not determined*		
Dynamic viscosity	*not determined*		
Kinematic viscosity	44 mm²/s	40 °C	

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No known hazardous reactions.

10.2. Chemical stability
The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
To avoid thermal decomposition do not overheat.

10.5. Incompatible materials
Materials to avoid: Acid, Oxidising agent, Reducing agent

10.6. Hazardous decomposition products
Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: Toxicological information

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

Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1
LD_{50} oral: >5,000 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L 4 h (Rat)
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3
LD_{50} oral: 2,100 – 2,200 mg/kg (rat)
LD_{50} dermal: 15,000 mg/kg (rabbit)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts. May produce an allergic reaction.

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.

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.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

*
12.1. Toxicity

Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1
NOEC: ≥100 mg/L 3 d (Algae/water plant, Algen)
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3
LC_{50}: ≥40 mg/L 2 d (fish)
LC_{50}: ≥0.58 – 0.58 mg/L 4 d (crustaceans)
NOEC: ≥0.07 mg/L 3 d (Algae/water plant)

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential

Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3
Log K_{OW}: 7.14

12.4. Mobility in soil
No data available

*
12.5. Results of PBT and vPvB assessment

Distillates (petroleum), hydrotreated heavy paraffinic **CAS No.:** 64742-54-7 **EC No.:** 265-157-1
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., Calcium salts **CAS No.:** 722503-68-6 **EC No.:** 682-816-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Phenol, dodecyl-, branched **CAS No.:** 121158-58-5 **EC No.:** 310-154-3
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Non-contaminated packages may be recycled.

13.2. Additional information
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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**

15.1.1. EU legislation
Other regulations (EU):
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.
Safety data sheet available for professional user on request.

15.1.2. National regulations
[DE] National regulations
Störfallverordnung (12. BImschV)

for substances contained in the product:
This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:
To follow: 5.2.5

Water hazard class

WGK:
2 - deutlich wassergefährdend

Source:
Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe
TRGS 510
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)
Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195
Other regulations, restrictions and prohibition regulations
Altöl-Verordnung (AltölV)

15.2. Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

* **16.1. Indication of changes**

2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
6.1.	Personal precautions, protective equipment and emergency procedures
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms
See overview table at www.euphrac.eu
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data
67/548/EEC - Dangerous Substances Directive
1999/45/EEC - Dangerous Preparations Directive
EC 1907/2006 - REACH Regulation
1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006
Regulation (EC) No 1907/2006 (REACH), Annex II
European Chemicals Agency (ECHA), C & L classification and labeling inventory
European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

* **16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

* **16.5. Relevant R-, H- and EUH-phrases (Number and full text)**

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H360F	May damage fertility.

Hazard statements	
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6. Training advice
No data available

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

* Data changed compared with the previous version.