

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

* **1 Identification**

- **Product identifier**
- **Trade name:** PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800
- **Application of the substance / the mixture** Abrasive and polishing compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Menzerna Polishing Compounds GmbH & Co. KG
Industriestraße 25
76470 ÖTIGHEIM
GERMANY
sds@menzerna.com
Tel.: +49 (0) 7222 9157-0
- **Information department:** Product and Environmental Safety Department
- **Emergency telephone number:** CHEMTREC: +1 703-741-5970 / 1-800-424-9300 CCN 842438

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* **3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture: consisting of the following components.

· Dangerous components:		
CAS: 1344-28-1	aluminium oxide	6-22%
CAS: 64742-55-8	Distillates (petroleum), hydrotreated light paraffinic ⚠ Asp. Tox. 1, H304	3-18%

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: **PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800**

(Contd. of page 1)

CAS: 64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, (< 2% aromatics)	10-25%
	⚠ Asp. Tox. 1, H304; Flam. Liq. 4, H227	
CAS: 56-81-5	glycerol	≤2.5%

· **Additional information:** CAS 64742-55-8: DMSO Extract < 3% according Methode IP 346

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Treat according to symptoms.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Water spray, foam, dry powder or carbon dioxide.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** Nitrogen oxides (NOx)
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Ensure adequate ventilation. Use personal protection recommended in section 8.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800

(Contd. of page 2)

· Protective Action Criteria for Chemicals

· PAC-1:

CAS: 56-81-5	glycerol	45 mg/m ³
CAS: 102-71-6	Triethanolamine	15 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	15 ppm
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 71-23-8	propan-1-ol	250 ppm
CAS: 126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	30 mg/m ³
CAS: 112-31-2	decanal	1.8 ppm
CAS: 1309-37-1	diiron trioxide	15 mg/m ³
CAS: 99-87-6	p-cymene	120 mg/m ³
CAS: 111-87-5	1-Octanol	5 ppm
CAS: 124-13-0	octanal	17 mg/m ³
CAS: 143-08-8	Nonyl alcohol	11 mg/m ³
CAS: 112-30-1	1-Decanol	1.8 mg/m ³

· PAC-2:

CAS: 56-81-5	glycerol	180 mg/m ³
CAS: 102-71-6	Triethanolamine	240 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 71-23-8	propan-1-ol	670 ppm
CAS: 126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	330 mg/m ³
CAS: 112-31-2	decanal	19 ppm
CAS: 1309-37-1	diiron trioxide	360 mg/m ³
CAS: 99-87-6	p-cymene	1,300 mg/m ³
CAS: 111-87-5	1-Octanol	20 ppm
CAS: 124-13-0	octanal	190 mg/m ³
CAS: 143-08-8	Nonyl alcohol	120 mg/m ³
CAS: 112-30-1	1-Decanol	19 mg/m ³

· PAC-3:

CAS: 56-81-5	glycerol	1,100 mg/m ³
CAS: 102-71-6	Triethanolamine	1,500 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	170 ppm
CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 71-23-8	propan-1-ol	4000* ppm
CAS: 126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,000 mg/m ³
CAS: 112-31-2	decanal	120 ppm
CAS: 1309-37-1	diiron trioxide	2,200 mg/m ³
CAS: 99-87-6	p-cymene	1,900 mg/m ³
CAS: 111-87-5	1-Octanol	150 ppm

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: **PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800**

CAS: 124-13-0	octanal	(Contd. of page 3) 1,100 mg/m ³
CAS: 143-08-8	Nonyl alcohol	710 mg/m ³
CAS: 112-30-1	1-Decanol	140 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a well-ventilated place. Storage temperature: between 5 °C and 30 °C.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

* **8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 1344-28-1 aluminium oxide	
PEL	Long-term value: 15*; 5** mg/m ³ *Total dust; ** Respirable fraction
REL	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
CAS: 56-81-5 glycerol	
PEL	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV	TLV withdrawn-insufficient data human occup. exp.
· Additional Occupational Exposure Limit Values for possible hazards during processing:	
CAS: 25322-68-3 Polyethylene glycol	
WEEL	Long-term value: 10 mg/m ³ (H); MW>200

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800

(Contd. of page 4)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
Normally one does not come into direct contact with the product during use. At the risk of entanglement of protective glove in rotating or linear moving machine parts protective gloves should not be worn.
Recommendation for short-term exposure: Use chemical resistant gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Recommended thickness of the material: ≥ 0.45 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
- **Penetration time of glove material**
 ≥ 480 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Viscous
Color:	Different according to coloring
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	7-10
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>100 °C (>212 °F)
· Flash point:	>100 °C (>212 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: **PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800**

(Contd. of page 5)

· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1-1.1 g/cm ³ (8.35-9.18 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	>20.5 mm ² /s
· Solvent content:	
VOC content:	11.4-13.0 % 114-143 g/l / 0.95-1.19 lb/gal
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** None under normal conditions.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
CAS: 64742-55-8 Distillates (petroleum), hydrotreated light paraffinic		
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.53 mg/l (rat)
CAS: 64742-48-9 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, (< 2% aromatics)		
Oral	LD50	>5000 mg/kg (rat)

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: **PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800**

(Contd. of page 6)

Dermal	LD50	>3000 mg/kg (rab)
--------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- **Waste disposal key:**
Waste codes should be determined in consultation with the customer, supplier and disposal.
- **Uncleaned packagings:**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|------------------------------------|------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800

(Contd. of page 7)

· UN proper shipping name	Void
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation 1907/2006/EC, REACH concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
Regulation 453/2010/EU, REACH as amended.
Regulation 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures.
- **Sara**

· Section 313 (Specific toxic chemical listings):	CAS: 67-63-0 propan-2-ol	
· TSCA (Toxic Substances Control Act):	All ingredients are listed.	
· Proposition 65		
· Chemicals known to cause cancer:	None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	None of the ingredients is listed.	
· EPA (Environmental Protection Agency)	None of the ingredients is listed.	
· TLV (Threshold Limit Value established by ACGIH)		
CAS: 1344-28-1	aluminium oxide	A4
CAS: 67-63-0	propan-2-ol	A4
CAS: 71-23-8	propan-1-ol	A4

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/06/2019

Reviewed on 02/06/2019

Trade name: PO 85J, PO 85RD, PO 85RD3.01, PO 85RE5, PO 85U, PO 91E, PO 91J, PO 91L, PO 93, PO 106FF, PO 141, PO 191, PO 230, PO 240, PO 264, PO 277, Final Finish 3000, Gelcoat Fine Cut & Gloss, Medium Cut Polish 2400, Super Finish Plus 3800

(Contd. of page 8)

CAS: 1309-37-1	diiron trioxide	A4
CAS: 80-56-8	alpha-Pinene	A4
CAS: 127-91-3	beta-Pinene	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The details of the safety data sheet apply only to the product described in the context of its intended use. The information is based on the current state of our knowledge. It is intended to describe our product in view of the risks posed by it and the relevant precautionary measures. It does not represent an assurance of product and quality characteristics. The information in this safety data sheet is not required under Article 31 and Annex II of Regulation EC (VO) no. 1907/2006. It is used to provide sufficient information on a voluntary basis to ensure the safe use of our product.

- **Relevant phrases**
H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.
- **Department issuing SDS:** Product and Environmental Safety Department
- **Date of preparation / last revision** 02/06/2019 / 7
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Asp. Tox. 1: Aspiration hazard – Category 1
- *** Data compared to the previous version altered.**