



SAFETY DATA SHEET

GRAISSE TIGRE 80

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

1.1 Product identifier

Product name : GRAISSE TIGRE 80
UFI : Not available.

Product description : Not available.
Product type : Solid.
Other means of identification : Not available.

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

| Identified uses |
|----------------------------------|
| Rubber production and processing |

1.3 Details of the supplier of the safety data sheet

Supplier : Manufacture Française des Pneumatiques Michelin (MFPM)
23, place des Carmes Déchaux
63040 Clermont-Ferrand Cedex 9
+33 (0)4 73 32 20 00

e-mail address of person responsible for this SDS : msds.central.eu@michelin.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number Italy : Bologna
" Maggiore " Hospital
Largo Negrisoni 2 Street- tel. 0039 051/6478955

Catania
"Garibaldi" Hospital – Center of resuscitation
S. Maria Gesù Place - tel. 0039 095/7594120

Cesena
Maurizio Bufalini Hospital
Ghirotti Street - tel. 0039 0547/352612

Chieti
Sant.ma Annunziata Hospital
Dei Vestini Street - tel. 0039 0871/345362

Genova
Gaslini Hospital
Largo Gaslini 5- 0039 010/3760873
San Martino Hospital
Benedetto XV Street, n. 10 - tel. 0039 010/352808

La Spezia
Civile S. Andrea Hospital
Vittorio Veneto Street - tel. 0039 0187/533296

Lecce
Régional Vito Fazzi Hospital
Moscati Street - tel.0039 0832/351105

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

Messina
Studies Unit of Messina
Santissima Annunziata Village - tel. 0039 090/2212451

Milano
Niguarda Ca' Grande Hospital
Hospital Maggiore Place, 3 - tel. 0039 02/66101029

Napoli
Cardarelli Hospitals joined
Antonio Cardarelli 9 Street- tel. 0039 081/5453333
Institute of Pharmacology and Toxicology
Costantinopoli Street, 16- tel. 0039 081/459802

Padova
Institute of Pharmacology University
Egidio Meneghetti Place, 2 - tel. 0039 049/931111

Pordenone

Pordenone
Civil Hospital – center of resuscitation
Montereale Street, 24 - tel. 0039 0434/399698

Reggio Calabria
center of resuscitation of "Bianchi - Melacrino - Morelli" Hospital
G. Melacrino Street - tel. 0039 0965/811624

Roma
Agostino Gemelli Polyclinic
Institute of anesthesiology and intensive care
Agostino Gemelli Place ,8 - tel. 0039 06/3054343
Umberto I Polyclinic
Policlinico Street - tel. 0039 06/490663

Torino
"S.G. Battista" - Molinette Hospital
Achille Mario Dogliotti Street- tel. 0039 011/6637637

Trieste
Institute for childhood
Istria Street 65/1 - tel. 0039 040/3785373

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms :

SECTION 2: Hazards identification

| | |
|---------------------------------------|---|
| Signal word | : No signal word. |
| Hazard statements | : No known significant effects or critical hazards. |
| Precautionary statements | |
| Prevention | : Not applicable. |
| Response | : Not applicable. |
| Storage | : Not applicable. |
| Disposal | : Not applicable. |
| Hazardous ingredients | : Not applicable. |
| Supplemental label elements | : EUH208 - Contains rosin. - May produce an allergic reaction. EUH210 - Safety data sheet available on request. |
| Special packaging requirements | |
| Tactile warning of danger | : Not applicable. |

2.3 Other hazards

| | |
|--|---------------|
| Other hazards which do not result in classification | : None known. |
|--|---------------|

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Chemical Nature : Aqueous solution of lubricants, anionic surfactants ;

| Product/ingredient name | Identifiers | % | Classification Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|--|------------|---|-------------|
| potassium stearate | EC: 209-786-1 CAS: 593-29-3 | 3 - 6 | Not classified. | [2] |
| Resin acids and Rosin acids, potassium salts | REACH #: 01-2119486885-17 EC: 263-142-4 CAS: 61790-50-9 | 2 - 3.5 | Eye Irrit. 2, H319 | [1] |
| rosin | REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 | 0.1 - 0.99 | Skin Sens. 1, H317 See Section 16 for the full text of the H statements declared above. | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation** : Evacuate personnel from affected area. Call for a doctor if necessary.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- Skin contact** : Remove contaminated clothing and shoes. Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an appropriate extinguishing agent.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : In the case of fire, evacuate all personnel close to the incident site. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material.
- For emergency responders** : For specific clothing and equipment necessary to treat discharge, consult section 8.

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. Consult the list of the identified uses of section 1 for information specific to the uses available in the exposure scenario(s), when available.

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- 7.2 Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers.

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : No additional information.

SECTION 8: Exposure controls/personal protection

Consult the list of the identified uses of section 1 for information specific to the uses available in the exposure scenario(s), when available.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| potassium stearate | ACGIH TLV (United States, 4/2014). TWA: 10 mg/m ³ 8 hours. Form: Total particulate mass |

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DELs available.

PNECs

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : In case of risk due to splashes or exposure to dust, wear suitable eye protection.

Skin protection

Hand protection : The wearing of waterproof and chemical resistant gloves is recommended.

Body protection : Personal protective equipment for the body should be selected according to the risks associated with the task.

Respiratory protection : Wear appropriate respirator when ventilation is inadequate.

Environmental exposure controls : Ensure that the specific limits for discharges comply with the regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|--|------------------|
| Physical state | : Solid. |
| Colour | : Brown. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| pH | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : Not available. |
| Flash point | : Not available. |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Burning time | : Not available. |
| Burning rate | : Not available. |
| Vapour density | : Not available. |
| Relative density | : 1.128 |
| Solubility(ies) | : Not available. |

SECTION 9: Physical and chemical properties

- Partition coefficient: n-octanol/ water** : Not available.
- Decomposition temperature** : Not available.
- Explosive properties** : Not available.
- Oxidising properties** : Not available.
- Particle characteristic (if nanoform)** : Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : oxidising agents;
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary : Not available.

Acute toxicity estimates

| Route | ATE value |
|----------------|-----------|
| Not available. | |

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitisation

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

SECTION 11: Toxicological information

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.
General : None available.
Carcinogenicity : None available.
Mutagenicity : None available.
Teratogenicity : None available.
Developmental effects : None available.
Fertility effects : None available.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Endocrine disrupting properties : No known significant effects or critical hazards.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. Consult the list of the identified uses of section 1 for information specific to the uses available in the exposure scenario(s), when available.

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|--|----------------|----------------|----------------|----------------|
| 14.1 UN number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| | | | | |

SECTION 14: Transport information

| | | | | |
|-----------------------------------|-----|-----|-----|-----|
| 14.5 Environmental hazards | No. | No. | No. | No. |
| Additional information | - | - | - | - |

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Bulk maritime transport in accordance with IMO instruments : Not available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Not listed.

Integrated pollution prevention and control list (IED) - Air : Not listed

Integrated pollution prevention and control list (IED) - Water : Not listed

Seveso Directive

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

D.Lgs. 152/06 : Not classified.

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

| Ingredient name | List name | Status |
|------------------------|------------------|---------------|
| Triethanolamine | Schedule III | Listed |

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

SECTION 15: Regulatory information

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia : Not determined.

Canada : At least one component is not listed in DSL but all such components are listed in NDSL.

China : All components are listed or exempted.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

United States : **United States inventory (TSCA 8b)**: All components are listed or exempted.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Full text of abbreviated H statements : H319 Causes serious eye irritation.

Full text of classifications [CLP/GHS] : Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

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Notice to reader

This Safety Data Sheet contains information based on the state of our knowledge relating to the product concerned, at the date indicated.

Moreover the attention of the users is drawn to the possibility of risks when a product is used for uses other than those for which it is conceived.

It does not exempt in any case the user to know and apply the whole of the texts regulating its activity. It is the users sole responsibility to learn about the precautions related to the use of this product.