

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

1.1. Product identifier

THERMOLAST®

Product code: TF5PEN

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

Use of the substance/mixture

Manufacturing plastic articles via industrial processing methods, including compounding and conversion.
For professional users only.

1.3. Details of the supplier of the safety data sheet

Malaysia
Company name: KRAIBURG TPE TECHNOLOGY (M) SDN.BHD.
Street: Lot 1839 Jalan KPB 6, Kawasan Perindustrian Balakong
Place: 43300 Seri Kembangan, Selangor, Malaysia
Telephone: +60 3 9545 6393

Germany
Company name: KRAIBURG TPE GmbH & Co. KG
Street: Friedrich-Schmidt-Str. 2
Place: 84478 Waldkraiburg, Germany
Telephone: +49 (8638) 9810 0

USA
Company name: KRAIBURG TPE CORPORATION
Street: 4365 Hamilton Mill Road
Place: Buford, Georgia 30518, USA
Telephone: +1 (678) 584 5020
+1 (800) 255 3924 (ChemTel, 24/7)
+1 (813) 248 0573 (ChemTel International, 24/7)

E-Mail: regulatory@kraiburg-tpe.com

1.4. Emergency telephone number

Telephone: +60 3 9545 6393 (only available at office times)
+60 1 2682 1393 (24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 (CLP)

As the potential hazardous ingredients, if any, are bound in the polymer matrix, it's unlikely that the product poses a risk to health and environment.

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP)

Additional advice on labelling

According to EC directives or the corresponding national regulations, there is no labelling obligation for this product.

2.3. Other hazards

May cause sensitization to susceptible people.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation/mixture without hazards for human health or environment.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move victim out of danger zone.

After inhalation

Provide fresh air. In case of irritation of the respiratory tract, seek medical advice.

After contact with skin

Wash with generous amount of water. Change contaminated clothing.

Following contact with the melted product, quickly cool affected skin area with plenty of cold water.

After contact with eyes

Rinse eyes immediately with water or in the eye-bath carefully and thoroughly. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water.

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

In case of skin irritation, seek medical treatment.

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

No special measures are necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area; alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO₂) or water spray.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Toxic fumes may occur in case of fire.

Pyrolysis products, toxic.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear respiratory protection in the presence of vapour, dust, and aerosols.

6.2. Environmental precautions

No special environmental protection measures are necessary.

6.3. Methods and material for containment and cleaning up

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

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No special handling instructions are necessary.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool and dry place.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

not applicable

8.2. Exposure controls

Protective and hygiene measures

Take off contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Suitable eye protection: Framed glasses.

Hand protection

Wear suitable gloves.

Required properties: heat-resistant.

Respiratory protection

Provide sufficient ventilation and punctiform suction at critical points.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid
Odour: characteristic

pH-Value: not determined

Changes in the physical state

Melting point: > 120 °C

Initial boiling point and boiling range: not determined

Flash point: > 250 °C

Flammability

Solid: not determined

Gas: not applicable

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Auto-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Vapour pressure: not oxidizing

Density (at 20 °C): not applicable

Water solubility: 0,9 – 1,5 g/cm³

Solubility in other solvents

Partition coefficient: practically insoluble

not determined

not determined

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Vapour density:	not determined
Evaporation rate:	not determined
9.2. Other information	
Solid content:	not determined
Bulk density:	0,45 – 0,8 kg/dm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no data available on the preparation/mixture itself.

10.2. Chemical stability

There are no data available on the preparation/mixture itself.

10.3. Possibility of hazardous reactions

There are no data available on the preparation/mixture itself.

10.4. Conditions to avoid

Oxidizing agents. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

There are no data available on the preparation/mixture itself.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Pyrolysis products, toxic.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Practical experience

Other observations

Frequently or prolonged contact with skin may cause dermal irritation.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the preparation/mixture itself.

12.2. Persistence and degradability

There are no data available on the preparation/mixture itself.

12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No symptoms known up to now.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.

Waste disposal number of waste from residues/unused products

070299 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; wastes not otherwise specified

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Waste disposal number of used product

070299 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; wastes not otherwise specified

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of this transport regulation.

Air transport (ICAO)

Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No special measures are necessary.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not a hazardous material with respect to these transportation regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

National regulatory information

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

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LD50: Lethal dose, 50%

Data compared to the previous version altered.

Further 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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)