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SAFETY DATA SHEET

TEMANYL GF RETARDER

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

1.1 Product identifier

Product name : TEMANYL GF RETARDER

Product description : Inhibitor.

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

Recommended use: Painting

1.3 Details of the supplier of the safety data sheet

Manufacturer or Distributor

Tikkurila Oyj P.O. Box 53 FI-01301 VANTAA FINLAND

Telephone +358 20 191 2000

e-mail address of person : Tikkurila Oyj, responsible for this SDS Product Safety,

e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number : 112 (24h)

Supplier or Manufacturer

Telephone number : Tikkurila Oyj

+358 20 191 2000 (GMT +2) Mon-Fri 8-16

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]

Flam. Liq. 2, H225 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Hazard pictograms :







Signal word : Danger

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Hazard statements : H225 - Highly flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Not applicable.

Prevention : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 - Avoid breathing mist/vapours/spray. P273 - Avoid release to the environment.

P280 - Wear protective gloves/clothing and eye/face protection. P284 - In case of inadequate ventilation wear respiratory protection.

Response : P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or physician.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : methyl methacrylate

4-tert-butylpyrocatechol

Supplemental label

elements

: 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

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Notes
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≥75 - ≤90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	D
4-tert-butylpyrocatechol	EC: 202-653-9 CAS: 98-29-3	≥10 - <25	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	-
			See Section 16 for the full text of the H statements declared above.	

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.

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

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General : Take off immediately all contaminated clothing. In all cases of doubt, or when

symptoms persist, seek medical attention. Show this safety data sheet or label to

the doctor if possible.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of

lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be

obtained.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel. Get medical attention.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners. In case

of chemical burns, get medical attention as soon as possible.

Ingestion : If accidentally swallowed rinse the mouth with plenty of water (only if the person is

conscious) and obtain immediate medical attention. Remove to fresh air and keep

at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

May cause respiratory irritation.

May cause an allergic skin reaction.

Inhalation of vapours may cause dizziness, headache and nausea.

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: ***TO BE TRANSLATED***

Unsuitable extinguishing

media

: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Highly flammable liquid and vapour. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- : Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Do not breathe vapour or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).
- **6.2 Environmental precautions**
- : Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.
- 6.3 Methods and material for containment and cleaning up
- : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.
- 6.4 Reference to other sections
- : See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

: Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. No sparking tools should be used.

Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Wear appropriate respirator when ventilation is inadequate. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

: Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Fill the container by approximately 90 % only as oxygen (air) is required for stabilisation. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Recommended storage temperature is +5°C ...+25°C. Store in accordance with local regulations.

7.3 Specific end use(s) : None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

-	
Exposure limit values	
EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 416 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m³ 8 hours. TWA: 50 ppm 8 hours.	

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procedures

Recommended monitoring: 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.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

: Wear eye/face protection (EN166). Eye/face protection

: Always wear approved protective gloves against chemicals. Gloves should be Hand protection replaced regularly and if there is any sign of damage to the glove material. The

instructions and information provided by the glove manufacturer on use, storage,

maintenance and replacement must be followed.

Recommended glove material (EN374): < 1 hour (breakthrough time): nitrile rubber 1 - 4 hours (breakthrough time): butyl rubber > 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

: Wear suitable protective clothing. On handling of larger quantities also face shield, Skin protection

chemical-resistant boots, safety apron. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibres or of

high-temperature-resistant synthetic fibres.

: If ventilation is inadequate, use respirator that will protect against organic vapour Respiratory protection

> and dust/mist. During spray-application use respirators with combination filter A/P3 Wear a half mask or full face respirator with gas and vapour filter A and with dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure to use an approved/certified respirator or equivalent.

Check that mask fits tightly and change filter regularly.

Environmental exposure

controls

: For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. : Colourless. Colour Odour : Strong.

Odour threshold : Not relevant for the hazard assessment of the product. pН : Not relevant for the hazard assessment of the product.

Melting point/freezing point

Initial boiling point and

boiling range

: -48°C (methyl methacrylate) : 100.36°C (methyl methacrylate)

Flash point : 10 °C (methyl methacrylate)

Evaporation rate : Not relevant due to the nature of the product.

Flammability (solid, gas) : Not applicable. Product is a liquid.

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Upper/lower flammability or

explosive limits

: Lower: 1.7% (methyl methacrylate) Upper: 12.5% (methyl methacrylate)

Vapour pressure : 3.7 kPa [room temperature] (methyl methacrylate)

Vapour density : 3.5 (methyl methacrylate)

Density : 1 g/cm³

Solubility(ies) : insoluble in water.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : 400°C (methyl methacrylate)

Decomposition temperature : Not relevant for the hazard assessment of the product.

Viscosity : Not relevant for the hazard assessment of the product.

Explosive properties : No explosive ingredients present.

Oxidising properties : No oxidising ingredients present.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : See Section 10.5.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances or heavy metal iones.

10.4 Conditions to avoid

: Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame). If the permissible storage period or storage temperature is exceeded, the

product may polymerize with heat evolution.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions:

peroxides reducing agents strong acids strong alkalis amines

10.6 Hazardous decomposition products

: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Long term exposure to product vapors may result in adverse health effect such as mucous membrane and respiratory system irritation. Symptoms and signs include headache and dizziness. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

Acute toxicity

Not classified.

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Irritation/Corrosion

Causes severe skin burns and eye damage.

Sensitisation

May cause an allergic skin reaction.

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product.

Do not allow to enter drains, water courses or soil.

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Harmful to aquatic life with long lasting effects.

12.1 Toxicity : No specific data.

Not available.

12.2 Persistence and

degradability

: No specific data.

12.3 Bioaccumulative potential

Product/ingredient name		Bioconcentration factor [BCF]	Potential
4-tert-butylpyrocatechol	1.98	-	low
methyl methacrylate	1.38	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : Not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal

: Empty packaging should be recycled or disposed of in accordance with national

regulations.

Special precautions : None.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	Paint related material, flammable, corrosive
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	II	II	II
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID

: Hazard identification number 338

Limited quantity 1 L

Special provisions 163, 367

Tunnel code (D/E)

IMDG

: <u>Emergency schedules</u> F-E, S-C <u>Special provisions</u> 163, 367

IATA

: Quantity limitation Passenger and Cargo Aircraft: 1 L.. Packaging instructions: 352.

Cargo Aircraft Only: 5 L.. Packaging instructions: 363. Limited Quantities -

Passenger Aircraft: 0.5 L.. Packaging instructions: Y340.

Special provisions A3, A72, A192, A803

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.

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14.7 Transport in bulk according to 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)

Other EU regulations

Europe inventory : All components are listed or exempted.

National regulations

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

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

ClassificationJustification

Flam. Liq. 2, H225

Skin Corr. 1B, H314

Skin Sens. 1, H317

STOT SE 3, H335

Aquatic Chronic 3, H412

On basis of test data
Calculation method
Calculation method
Calculation method

Full text of abbreviated H

statements

: H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

Aquatic Acute 1, H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category

1

Aquatic Chronic 2, H411 LONG-TERM (CHRONIC) AQUATIC HAZARD -

Category 2

Aquatic Chronic 3, H412 LONG-TERM (CHRONIC) AQUATIC HAZARD -

Category 3

Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2

Skin Corr. 1B, H314 SKIN CORROSION/IRRITATION - Category 1B Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITISATION - Category 1

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Date of issue/ Date of

revision

: 12/4/2020

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Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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