

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 1 of 10

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

1.1. Product identifier

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

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

Use of the substance/mixture

Corrosion protection rubber

1.3. Details of the supplier of the safety data sheet

Company name: REMA TIP TOP AG
Street: Gruber Strasse 65
Place: D-85586 Poing
Telephone: +49 (0) 8121 / 707 - 100
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)

Further Information

EC-SDS applicable for following products:
CHEMOLINE 4A, CHEMOLINE 4B, CHEMOLINE 4CN, CHEMOLINE 4V (unvulcanized)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Carc. 2; H351
Repr. 1A; H360Df
STOT RE 2; H373
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Lead tetroxide
Phenol, 4-(1,1-dimethylethyl)-, polymer with ethyne

Signal word: Danger

Pictograms:



Hazard statements

H351 Suspected of causing cancer.
H360Df May damage the unborn child. Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P273 Avoid release to the environment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 2 of 10

Special labelling of certain mixtures

EUH208 Contains Di(benzothiazol-2-yl) disulphide, Thiram. May produce an allergic reaction. Restricted to professional users.

Additional advice on labelling

According to Regulation (EC) No 1272/2008 Annex I section 1.3.4 [Metals in massive form, alloys, mixtures containing polymers, mixtures containing elastomers] this product is not subject to labelling.

As an article the product does not need to be labelled in accordance with EC-regulations or respective national laws.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Crude rubber with antioxidant and accelerator

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 1314-41-6 | Lead tetroxide | | | < 5 % |
| | 215-235-6 | | 01-2119517589-27 | |
| | Carc. 2, Repr. 1A, Acute Tox. 4, Acute Tox. 4, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H351 H360Df H332 H302 H372 H400 H410 | | | |
| 28514-92-3 | Phenol, 4-(1,1-dimethylethyl)-, polymer with ethyne | | | < 5 % |
| | | | | |
| | Repr. 1B; H360D | | | |
| 120-78-5 | Di(benzothiazol-2-yl) disulphide | | | < 1 % |
| | 204-424-9 | 613-135-00-0 | 01-2119489366-24 | |
| | Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H400 H410 EUH031 | | | |
| 137-26-8 | Thiram | | | < 1 % |
| | 205-286-2 | 006-005-00-4 | 01-2119492301-45 | |
| | Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H332 H302 H315 H319 H317 H373 H400 H410 | | | |
| 96-45-7 | Ethylene thiourea | | | < 1 % |
| | 202-506-9 | 613-039-00-9 | 01-2119541697-28 | |
| | Repr. 1B, Acute Tox. 4; H360D H302 | | | |

Full text of H and EUH statements: see section 16.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 3 of 10

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|-----------|---|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 1314-41-6 | 215-235-6 | Lead tetroxide | < 5 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = > 10000 mg/kg | |
| 120-78-5 | 204-424-9 | Di(benzothiazol-2-yl) disulphide | < 1 % |
| | | Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1 | |
| 137-26-8 | 205-286-2 | Thiram | < 1 % |
| | | inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 3460 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1800 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10 | |
| 96-45-7 | 202-506-9 | Ethylene thiourea | < 1 % |
| | | oral: ATE = 500 mg/kg | |

Further Information

This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ("REACH") in a concentration \geq 0,1 %:
 Lead tetroxide
 Ethylene thiourea

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No hazards which require special first aid measures.

After inhalation

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

After contact with skin

Wash with water and soap as a precaution.

After ingestion

Ingestion is not considered a potential route of exposure.

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

May cause sensitization of susceptible persons by skin contact.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Any extinguishing means and measures are acceptable. Fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides and nitrogen oxides (NOx).

Bromine compounds

Chlorine compounds

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.

Protective suit.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 4 of 10

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ensure adequate ventilation.
Keep away noninvolved persons.

For non-emergency personnel

Avoid contact with skin, eyes and clothing.

For emergency responders

In case of vapour formation use respirator.
Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For containment

No special measures required.

For cleaning up

Take up mechanically and collect in suitable container for disposal.
Where possible recycling is preferred to disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Informations for disposal look up chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe vapours.
Avoid contact with the skin and the eyes.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.
The product is flammable but not readily ignited.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a dry, cool place.

Hints on joint storage

Incompatible with:
Nitrous acid and other nitrosating agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Corrosion protection rubber

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 5 of 10

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|-----------|--|-----|-------------------|---------------------|-----------|--------|
| 1333-86-4 | Carbon black (Inhalable Fraction) | - | 3 | | TWA (8 h) | |
| 137-26-8 | Thiram (ISO) (Inhalable Fraction and Vapour) | - | 0.05 | | TWA (8 h) | |

Additional advice on limit values

This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.

Hand protection

Protective gloves

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

In case of respirable dust and/or fumes, use a self-contained breathing apparatus.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | |
|---|----------------|-------|
| Physical state: | Solid | |
| Colour: | Black | |
| Odour: | Characteristic | |
| pH-Value: | | n.a. |
| Changes in the physical state | | |
| Melting point/freezing point: | | n. d. |
| Boiling point or initial boiling point and boiling range: | | n.a. |
| Sublimation point: | | n.a. |
| Softening point: | | n. d. |
| Pour point: | | n. d. |
| Flash point: | | n.a. |
| Flammability | | |
| Solid/liquid: | | n. d. |
| Explosive properties | | |
| The product is not explosive. | | |
| Lower explosion limits: | | n.a. |
| Upper explosion limits: | | n.a. |
| Auto-ignition temperature: | | n.a. |
| Self-ignition temperature | | |
| Solid: | | n. d. |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 6 of 10

| | |
|--|-------------------------------|
| Gas: | n.a. |
| Decomposition temperature: | n. d. |
| Oxidizing properties | |
| Non oxidizing. | |
| Vapour pressure: | n.a. |
| Density (at 23 °C): | 1,23 - 1,34 g/cm ³ |
| Bulk density: | n. d. |
| Water solubility: (at 20 °C) | Insoluble |
| Solubility in other solvents | |
| n. d. | |
| Partition coefficient n-octanol/water: | n. d. |
| Viscosity / dynamic: | n. d. |
| Viscosity / kinematic: | n. d. |
| Flow time: | n. d. |
| Relative vapour density: | n. d. |
| Evaporation rate: | n. d. |
| Solvent separation test: | n.a. |
| Solvent content: | n.a. |

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with:
Nitrous acid and other nitrosating agents.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Nitrous acid and other nitrosating agents.

10.6. Hazardous decomposition products

An inappropriate handling, for instance major amounts of product combined with strong heat and nitrosating agents, renders possible a cleavage of nitrosamines in traces.

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO_x).

Bromine compounds

Chlorine compounds

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 7 of 10

Based on available data, the classification criteria are not met.

No toxicological data available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Contains Di(benzothiazol-2-yl) disulphide, Thiram. May produce an allergic reaction.

May cause sensitization of susceptible persons by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (Lead tetroxide)

May damage the unborn child. Suspected of damaging fertility. (Lead tetroxide)

Germ cell mutagenicity: 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

May cause damage to organs through prolonged or repeated exposure. (Lead tetroxide)

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Further information

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

Product contains low quantities of components with the classification "toxic for reproduction". Nevertheless it is not hazardous to health if inhaled, swallowed or in case of contact with skin under this form.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

Because of the low solubility a toxicity to aquatic organisms is not to be expected.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meet the criteria.

12.7. Other adverse effects

No data available



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 8 of 10

Further information

Do not flush into surface water or sanitary sewer system.
Ecological injuries are not known or expected under normal use.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

List of Wastes Code - residues/unused products

191204 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE; wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified; plastic and rubber

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|--|
| 14.1. UN number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--|--|
| 14.1. UN number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| 14.1. UN number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 9 of 10

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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
Lead tetroxide; Ethylene thiourea

Restrictions on use (REACH, annex XVII):

Entry 30, Entry 63, Entry 75

2004/42/EC (VOC):

0 %

Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Carc. 2; H351 | Calculation method |
| Repr. 1A; H360Df | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

H302

Harmful if swallowed.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

TIP TOP CHEMOLINE 4A, 4B, 4CN, 4V unv.

Revision date: 27.10.2023

Product code: 00156-0461

Page 10 of 10

| | |
|--------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| H360D | May damage the unborn child. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH031 | Contact with acids liberates toxic gas. |
| EUH208 | Contains Di(benzothiazol-2-yl) disulphide, Thiram. May produce an allergic reaction. |

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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