

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 1 of 12

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

1.1. Product identifier

TIP TOP ADHESIVE REMACLAVE SOLUTION

Art.-No.

538 1600, 538 1610, 538 1620, 538 1630

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

Use of the substance/mixture

Adhesive

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)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225

Skin Irrit. 2; H315

STOT SE 3; H336

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Signal word: Danger

Pictograms:



Hazard statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapour. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 2 of 12

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P273 Avoid release to the environment.

Special labelling of certain mixtures

EUH208 Contains N-Phenyl-Naphthylamine. May produce an allergic reaction.

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

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation with aromatic hydrocarbons

Hazardous components

| CAS No | Chemical name | Quantity | | |
|------------|--|--------------|------------------|---------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 64742-49-0 | Naphtha (petroleum) [Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics] | | | < 80 % |
| | 920-750-0 | | 01-2119473851-33 | |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | | | |
| 1314-13-2 | Zinc oxide | | | < 2,5 % |
| | 215-222-5 | 030-013-00-7 | 01-2119463881-32 | |
| | Aquatic Acute 1, Aquatic Chronic 1; H400 H410 | | | |
| 90-30-2 | N-Phenyl-Naphthylamine | | | < 1 % |
| | 201-983-0 | | 01-2119488704-27 | |
| | Acute Tox. 4, Skin Sens. 1B, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H373 H400 H410 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity | |
|------------|---|---|----------|--|
| | Specific Conc. Limits, M-factors and ATE | | | |
| 64742-49-0 | 920-750-0 | Naphtha (petroleum) [Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics] | < 80 % | |
| | inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | | | |
| 1314-13-2 | 215-222-5 | Zinc oxide | < 2,5 % | |
| | Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1 | | | |
| 90-30-2 | 201-983-0 | N-Phenyl-Naphthylamine | < 1 % | |
| | dermal: LD50 = > 5000 mg/kg; oral: LD50 = 1625 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1 | | | |

Further Information

According to note P to the directive 67/548/EEC, "Naphtha (petroleum)" is not to be classified as "carcinogenic" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 3 of 12

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.
Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
The decision whether to induce vomiting or not is to be taken by a physician.

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

May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.
Attention. Beware, danger of aspiration.

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

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:
carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Protective suit.

Additional information

Vapours are heavier than air and spread along ground.
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Cool containers at risk with water spray jet.
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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 4 of 12

General advice

- Ensure adequate ventilation.
- Remove persons to safety.
- Keep away sources of ignition.

For non-emergency personnel

- Do not breathe vapours.
- 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.
- Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

For containment

- Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel into suitable container for 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

- Keep container tightly closed.
- Use only in area provided with appropriate exhaust ventilation.
(in case of higher concentration).
- In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

Advice on protection against fire and explosion

- Keep product and empty container away from heat and sources of ignition.
- Pay attention to anti-explosion rules.
- Do not smoke.
- Take precautionary measures against static discharges (earthing (grounding) at pouring).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep containers tightly closed in a cool, well-ventilated place.
- Keep away from heat and sources of ignition.

Hints on joint storage

- Incompatible with oxidizing agents.

Further information on storage conditions

- Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

- Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 5 of 12

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) | |
| 9006-04-6 | Natural Rubber Latex (as inhalable allergenic proteins) | - | 0.0001 | | TWA (8 h) | |
| 1314-13-2 | Zinc oxide, fume (Respirable Fraction) | - | 2 | | TWA (8 h) | |
| | | - | 10 | | STEL (15 min) | |

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.
Pay attention to explosion protection rules.

Protective and hygiene measures

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

Eye/face protection

Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

Hand protection

Protective gloves resistant to chemicals made off viton, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Vitoject 890> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
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)
Remove and wash contaminated clothing before re-use.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Black
Odour: Hydrocarbon-like

Test method

pH-Value: n. d.

Changes in the physical state

Melting point/freezing point: n. d.
Boiling point or initial boiling point and boiling range: 90 - 165 °C *)
Sublimation point: n.a.
Softening point: n. d.
Flash point: < 10 °C *)
Sustaining combustion: Sustaining combustion

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 6 of 12

Flammability

Solid/liquid: n.a.

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits: 0,7 vol. % *)

Upper explosion limits: 7,7 vol. % *)

Auto-ignition temperature: > 200 °C *)

Self-ignition temperature

Solid: n.a.

Gas: n.a.

Decomposition temperature: n. d.

Oxidizing properties

Not oxidising.

Vapour pressure:
(at 20 °C) 27 hPa *)Density (at 20 °C): 0,8 g/cm³

Bulk density: n.a.

Water solubility:
(at 20 °C) Immiscible

Solubility in other solvents

n. d.

Partition coefficient n-octanol/water: n. d.

Viscosity / dynamic: n. d.

Viscosity / kinematic:
(at 40 °C) > 20,5 mm²/sFlow time:
(at 20 °C) 30 s Flow time in a 6 mm cup

Relative vapour density: > 1 *)

Evaporation rate: 1,4 *)

Solvent separation test: n. d.

Solvent content: < 80 %

9.2. Other information

*) Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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

Reactions with oxidising agents.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Heating can release vapours which can be ignited.

Vapour/air-mixtures are explosive at intense warming.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 7 of 12

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

No toxicological data available.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

LD50/oral/rat: > 5000 mg/kg [OECD 401]

LD50/dermal/rabbit: > 2000 mg/kg [OECD 402]

LC50/inhalation/rat: > 20 mg/l [OECD 403]

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

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Contains N-Phenyl-Naphthylamine. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Naphtha (petroleum) [Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics])

STOT-repeated exposure

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

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

Other information

Contact with eyes may cause irritation.

Inhalation of vapours in high concentration can cause narcotic effects.

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Attention. Beware, danger of aspiration!

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 8 of 12

Toxic to aquatic life with long lasting effects.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
LC50/Oncorhynchus mykiss/96 h > 13,4 mg/l
EC50/Daphnia magna/48 h = 3 mg/l
EC50/Pseudokirchneriella subcapitata/72 h = 10 mg/l

Zinc oxide
EC50/Ceriodaphnia dubia/48 h = 0,01 - 0,1 mg/l
EC50/Selenastrum capricornutum/72 h = 0,01 - 0,1 mg/l
n-Cyclohexyl-N-ethylamine
EC50/Daphnia magna/48 h = 10 - 100 mg/l
ErC50/Desmodesmus subspicatus/72 h = 10 - 100 mg/l

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 meets the criteria.

12.7. Other adverse effects

Hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1133
14.2. UN proper shipping name: ADHESIVES

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 9 of 12

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 640D

Limited quantity: 5 L / 30 kg

Excepted quantity: E2

Transport category: 2

Hazard No: 33

Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1133

14.2. UN proper shipping name: Adhesives

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 640D

Limited quantity: 5 L / 30 kg

Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1133

14.2. UN proper shipping name: ADHESIVES

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Special Provisions: -

Limited quantity: 5 L / 30 kg

Excepted quantity: E2

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1133

14.2. UN proper shipping name: ADHESIVES

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 10 of 12



| | | |
|--|------|------|
| Special Provisions: | A3 | |
| Limited quantity Passenger: | 1 L | |
| Passenger LQ: | Y341 | |
| Excepted quantity: | E2 | |
| IATA-packing instructions - Passenger: | | 353 |
| IATA-max. quantity - Passenger: | | 5 L |
| IATA-packing instructions - Cargo: | | 364 |
| IATA-max. quantity - Cargo: | | 60 L |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

| | |
|---|-----------------------|
| 2004/42/EC (VOC): | < 80 % |
| Information according to 2012/18/EU (SEVESO III): | P5c FLAMMABLE LIQUIDS |
| Additional information: | E2 |

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 11 of 12

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 |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Skin Irrit. 2; H315 | Calculation method |
| STOT SE 3; H336 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
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.
EUH208 Contains N-Phenyl-Naphthylamine. 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)"



Safety Data Sheet

according to Regulation (EC) No 1907/2006

TIP TOP ADHESIVE REMACLAVE SOLUTION

Revision date: 18.07.2023

Product code: 00156-0122

Page 12 of 12

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