

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**TIP TOP SOLUTION NRX-MOD COMP. A**

Revision date: 12/13/2024

Product code: 00156-0480

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**1. Identification****Product identifier**

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**Art.-No.**

525 5023

Substance name: Ethyl acetate

CAS No: 141-78-6

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Primer

**Details of the supplier of the safety data sheet****Manufacturer**

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

**Supplier**

Company name: REMA TIP TOP / North America Inc.  
Street: 1500 Industrial Blvd  
Place: Madison, GA 30650, USA  
Telephone: +1 800 225 7362,  
Internet: www.rematiptop.com

**Emergency phone number:**

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
(USA domestic) 1 800 535 5053 or international (001) 352 323 3500  
Infotrac/GBK GmbH-ID: 93591

**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

**Label elements****29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapor

Causes serious eye irritation

May cause drowsiness or dizziness

**Precautionary statements**

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



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Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Store in a well-ventilated place. Keep cool.

#### **Hazards not otherwise classified**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.  
Vapours may form explosive mixture with air.

### 3. Composition/information on ingredients

#### **Substances**

##### **Chemical characterization**

Mixture containing substances listed in section 3 with additives

Sum formula: C<sub>4</sub> H<sub>8</sub> O<sub>2</sub>  
Molecular weight: 88,11 g/mol

##### **Hazardous components**

CAS No	Components	Quantity
141-78-6	Ethyl acetate	> 99 %

### 4. First-aid measures

#### **Description of first aid measures**

##### **General information**

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.  
Take away from danger area and lay down affected person.

##### **After inhalation**

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

##### **After contact with skin**

Wash off 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.  
Summon a doctor immediately.  
Induce vomiting only upon the advice of a physician.

#### **Most important symptoms and effects, both acute and delayed**

Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.  
Attention, beware danger of aspiration.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

#### **Indication of any immediate medical attention and special treatment needed**



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Treat symptoms.

#### 5. Fire-fighting measures

##### Extinguishing media

###### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

###### **Unsuitable extinguishing media**

Full water jet.

##### Specific hazards arising from the chemical

Fire may produce:

carbon monoxide and carbon dioxide

##### Special protective equipment and precautions for fire-fighters

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.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

###### **General advice**

Use only explosion-proof equipment.

Ensure adequate ventilation.

Keep away sources of ignition.

unbKeep away noninvolved persons.

###### **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.

##### Environmental precautions

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

##### 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.

##### Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

#### 7. Handling and storage

##### Precautions for safe handling

###### **Advice on safe handling**

Keep container tightly closed.

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Vapours are heavier than air and spread along ground.  
Keep a good ventilation and air-exhaust at the place of work.  
Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.  
Do not smoke.  
Take precautionary measures against static discharges.  
Use only explosion-proof equipment.

**Advice on general occupational hygiene**

Do not inhale vapours.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.  
Treat subsequently with skin cream.  
Remove and wash contaminated clothes before re-use.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.  
Pay attention to anti-explosion rules.

**Hints on joint storage**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	PEL
		400	1400		TWA (8 h)	REL
		400	1440		TWA (8 h)	ACGIH-2024

**Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly fitting goggles.  
Eye wash bottle with pure water.

**Hand protection**

Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0.7 mm, Permeation resistance (wear duration) approx. 120 minutes, i.e. protective glove <Butoject 898> 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**

Solvent-resistant apron.

**Respiratory protection**

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

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**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	Colourless
Odor:	Fruity

**Test method****Changes in the physical state**

Melting point/freezing point:	- 83 °C	DIN 51751
Boiling point or initial boiling point and boiling range:	76 - 78 °C	DIN 53757
Sublimation point:	n.a.	
Softening point:	n.d.	
Flash point:	- 1 °C	DIN 51755

**Flammability**

Solid/liquid:	n.a.
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**Explosive properties**

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

Lower explosion limits:	2,1 vol. %	
Upper explosion limits:	11,5 vol. %	
Auto-ignition temperature:	460 °C	DIN 51794

**Self-ignition temperature**

Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	n.d.
pH-Value:	n.d.
Viscosity / dynamic: (at 20 °C)	0,44 mPa·s
Viscosity / kinematic:	n.d.
Flow time:	n.d.
Water solubility: (at 20 °C)	79 g/L

**Solubility in other solvents**

n.d.

Partition coefficient n-octanol/water:	Log Pow: 0,68	
Vapor pressure: (at 20 °C)	100 hPa	
Vapor pressure: (at 50 °C)	360 hPa	
Density (at 20 °C):	0,902 g/cm <sup>3</sup>	DIN 51757
Bulk density:	n.a.	
Relative vapour density:	n.d.	

**Other information****Information with regard to physical hazard classes**

Sustaining combustion:	Sustaining combustion
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Oxidizing properties  
Not oxidising.

**Other safety characteristics**

Solvent separation test: 0 %  
Solvent content: 100 %  
Evaporation rate: n.d.

**Further Information**

Minimum ignition energy: 1,42 mJ

**10. Stability and reactivity****Reactivity**

No decomposition if stored and applied as directed.

**Chemical stability**

Stability: Stable

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

Reactions with acids, alkalies and oxidizing agents.

**Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Vapour/air mixtures are explosive at intensive warming.  
Heating can release vapours which can be ignited.

**Incompatible materials**

Oxidizing agents  
Acids and bases.

**Hazardous decomposition products**

No hazardous decomposition products known.

Fire may produce:  
Carbon monoxide and carbon dioxide

**11. Toxicological information****Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

**Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.  
LD50/oral/rat: 5620 m/kg  
LD50/dermal/rabbit: > 18000 mg/kg  
LC50/inhalativ/rat: 56 mg/l/4 h

**Irritation and corrosivity**

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

**Sensitizing effects**

Based on available data, the classification criteria are not met.  
Sensitization skin (guinea pig): Non-sensitizing [OECD 406]

**Carcinogenic/mutagenic/toxic effects for reproduction**

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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Mutagenicity: Ames-Test: Negative [OECD 471]; Chromosomal aberration test: Negative

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (Ethyl acetate)

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (NTP): Not listed

**Aspiration hazard**

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

**Additional information on tests**

This product is classified in accordance with the GHS regulations.

**Information on other hazards****Other information**

Effects of breathing high concentrations of vapour may include. Headache, dizziness, weakness, unconsciousness.

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

**12. Ecological information****Ecotoxicity**

LC50/Pimephales promelas/96 h = 230 mg/l

EC50/Daphnia magna/48 h = 610 mg/l

EC50/Scenedesmus subspicatus/48 h = 5600 mg/l

NOEC/Daphnia magna/21 d = 2,4 mg/l

NOEC/Desmodemus subspicatus/72 h > 100 mg/l [OECD 201]

**Persistence and degradability**

Biodegradable (OECD): 100 % (28 d) [OECD 301D]

**Bioaccumulative potential**

Low bio-accumulation can be estimated because of low log Po/w. (Log Pow: 0,68)

**Mobility in soil**

No data available

**Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**Other adverse effects**

Slightly water hazardous.

**Further information**

Do not flush into surface water or sanitary sewer system.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

**Contaminated packaging**

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

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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.

#### 14. Transport information

##### U.S. DOT 49 CFR 172.101

**UN number or ID number:** UN 1173  
**Proper shipping name:** Ethyl acetate  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



##### Marine transport (IMDG)

**UN number or ID number:** UN 1173  
**UN proper shipping name:** ETHYL ACETATE  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



Limited quantity: 1 L / 30 kg  
Excepted quantity: E2  
EmS: F-E, S-D

##### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:** UN 1173  
**UN proper shipping name:** ETHYL ACETATE  
**Transport hazard class(es):** 3  
**Packing group:** II  
Hazard label: 3



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

##### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

##### Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

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**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

TSCA listed

**National regulatory information**

SARA Section 304 CERCLA:

Ethyl acetate (141-78-6): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Ethyl acetate (141-78-6): Fire hazard, Immediate (acute) health hazard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

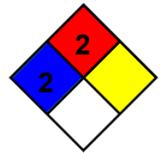
This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information****Hazardous Materials Identification System (HMIS)**

Health: 2  
Flammability: 2  
Physical Hazard: 0

**NFPA Hazard Ratings**

Health: 2  
Flammability: 2  
Reactivity:  
Unique Hazard:

**Changes**

Revision date: 13.12.2024  
Revision No: 1,3

This data sheet contains changes from the previous version in section(s): 1,2,5,6,9,10,11,14.

**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

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LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Other data**

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.

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)