

## Safety Data Sheet

according to UK REACH Regulation

### TIP TOP SOLUTION NRX-MOD COMP. B

Revision date: 13.12.2024

Product code: 00156-0481

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

##### 1.1. Product identifier

TIP TOP SOLUTION NRX-MOD COMP. B

**Art.-No.**

525 5031

REACH Registration Number: 01-2120767978-27-XXXX

CAS No: 87-90-1

Index No: 613-031-00-5

EC No: 201-782-8

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

**Use of the substance/mixture**

Primer

##### 1.3. 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 INDUSTRY UK LTD  
Street: Plumtree Industrial Estate, Harworth  
Place: Doncaster, DN11 8EW, South Yorkshire  
Telephone: +44 (0)1302 711233  
Internet: www.rema-tiptop.co.uk

##### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**GB CLP Regulation**

Ox. Sol. 2; H272

Acute Tox. 4; H302

Eye Irrit. 2; H319

STOT SE 3; H335

Aquatic Acute 1; H400 (M-Factor (self-classification) = 10)

Aquatic Chronic 1; H410 (M-Factor (self-classification) = 1)

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

**GB CLP Regulation****Signal word:** Danger**Pictograms:**

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#### Hazard statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273	Avoid release to the environment.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Special labelling of certain mixtures

EUH031	Contact with acids liberates toxic gas.
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#### 2.3. Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula:	C3 CL3 N3 O3
Molecular weight:	232,41 g/mol

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
87-90-1	symclosene			> 99 %
	201-782-8	613-031-00-5	01-2120767978-27-0000	
	Ox. Sol. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H319 H335 H400 H410 EUH031			

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		
87-90-1	201-782-8	symclosene	> 99 %
	inhalation: LC50 = > 0,09 - < 0,29 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 700 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1		

### SECTION 4: First aid measures

#### 4.1. 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 dust or fumes from overheating or combustion.
- In the event of symptoms refer for medical treatment.



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#### 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.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

May intensify fire; oxidiser.  
Harmful if swallowed.  
Causes serious eye irritation.  
May cause respiratory irritation.  
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**

Product does not burn, fire-extinguishing activities according to surrounding.  
Foam, carbon dioxide (CO<sub>2</sub>), 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 (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)  
Chlorine compounds  
May intensify fire; oxidiser.  
The product reacts with a little of water and forms highly explosive nitrogen trichloride.

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

#### **Additional information**

Vapours are heavier than air and spread along ground.  
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**

##### **General advice**

Ensure adequate ventilation.  
Keep away sources of ignition.  
Avoid the formation and deposition of dust.  
Keep away noninvolved persons.

##### **For non-emergency personnel**

Do not breathe dust.



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Avoid contact with skin, eyes and clothing.

#### **For emergency responders**

Use personal protective clothing.

Respirator must be worn if exposed to dust.(Particle filter P2 )

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

#### **6.3. Methods and material for containment and cleaning up**

##### **For containment**

Avoid dust formation.

##### **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).

Information for disposal see section 13.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

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

Keep container tightly closed.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Avoid contact with skin, eyes and clothing.

##### **Advice on protection against fire and explosion**

Keep away from heat and sources of ignition.

##### **Advice on general occupational hygiene**

Do not breathe dust.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

#### **7.2. 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.

Protect from atmospheric moisture and water.

##### **Hints on joint storage**

Incompatible with:

Acids and bases.

oxidizing agents, Reducing agents.

Water, organic compounds, combustible substances

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

#### **7.3. Specific end use(s)**

Primer

### SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

##### **Additional advice on limit values**

Obey TLV for common dust, if applicable.

#### **8.2. Exposure controls**

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#### Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

##### Hand protection

In full or splash contact: Glove of nitrile rubber, layer thickness 0,11 mm, breakthrough time > 480 min.

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)

##### Respiratory protection

Breathing apparatus (particle filter) only if dust is formed. (Particle filter P2 )

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Crystalline
Colour:	White
Odour:	Pungent

#### Test method

##### 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.

Flash point: > 250 °C Open cup

##### 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.

Gas: n.a.

Decomposition temperature: > 225 °C

pH-Value (at 20 °C): 2,7 - 3,3 10 g/l

Viscosity / dynamic:  
(at 25 °C) n.a.

Viscosity / kinematic: n.a.

Flow time: n.a.

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Water solubility: (at 20 °C)	10 g/L
<b>Solubility in other solvents</b> n.d.	
Partition coefficient n-octanol/water:	n.a.
Vapour pressure: (at 20 °C)	n.a.
Density (at 20 °C):	2,07 g/cm <sup>3</sup>
Bulk density:	850 kg/m <sup>3</sup>
Relative vapour density:	n.a.

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

Sustaining combustion: Not sustaining combustion

Oxidizing properties

Oxidising solid

**Other safety characteristics**

Solvent separation test: 0 %

Solvent content: 0 %

Solid content: 100 %

Evaporation rate: n.a.

**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:

Acids and bases.

oxidizing agents, Reducing agents.

Water, organic compounds, combustible substances

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Acids and bases.

oxidizing agents, Reducing agents.

Water, organic compounds, combustible substances

**10.6. Hazardous decomposition products**

Contact with acids liberates toxic gas.

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

chlorine compounds

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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Harmful if swallowed.  
Contact with acids liberates toxic gas.  
LD50/oral/rat: 406 m/kg

#### **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.

#### **Sensitising effects**

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

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

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

#### **STOT-single exposure**

May cause respiratory irritation. (symclosene)

#### **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**

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

#### **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.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

LC50/Oncorhynchus mykiss/96 h = 0,08 mg/l  
EC50/Daphnia magna/48 h = 0,17 mg/l  
Very toxic to aquatic life with long lasting effects.

### **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**

This substance does not meet the PBT/vPvB criteria of UK REACH.

### **12.6. Endocrine disrupting properties**

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

### **12.7. Other adverse effects**

Hazardous water pollutant.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

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#### 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 or ID number:** UN 2468  
**14.2. UN proper shipping name:** TRICHLOROISOCYANURIC ACID, DRY  
**14.3. Transport hazard class(es):** 5.1  
**14.4. Packing group:** II  
Hazard label: 5.1



Classification code: O2  
Limited quantity: 1 kg  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 50  
Tunnel restriction code: E

##### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 2468  
**14.2. UN proper shipping name:** TRICHLOROISOCYANURIC ACID, DRY  
**14.3. Transport hazard class(es):** 5.1  
**14.4. Packing group:** II  
Hazard label: 5.1



Classification code: O2  
Limited quantity: 1 kg  
Excepted quantity: E2

##### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 2468  
**14.2. UN proper shipping name:** TRICHLOROISOCYANURIC ACID, DRY  
**14.3. Transport hazard class(es):** 5.1

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#### 14.4. Packing group:

II

Hazard label:

5.1



Special Provisions:

-

Limited quantity:

1 kg

Excepted quantity:

E2

EmS:

F-A, S-Q

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

##### 14.1. UN number or ID number:

UN 2468

##### 14.2. UN proper shipping name:

TRICHLOROISOCYANURIC ACID, DRY

##### 14.3. Transport hazard class(es):

5.1

##### 14.4. Packing group:

II

Hazard label:

5.1



Limited quantity Passenger:

2.5 kg

Passenger LQ:

Y544

Excepted quantity:

E2

IATA-packing instructions - Passenger:

558

IATA-max. quantity - Passenger:

5 kg

IATA-packing instructions - Cargo:

562

IATA-max. quantity - Cargo:

25 kg

#### 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.

#### **Other applicable information**

### 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 75

 Directive 2004/42/EC on VOC in  
paints and varnishes:

0 %

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

P8 OXIDISING LIQUIDS AND SOLIDS

##### **National regulatory information**

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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

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,7,9,10,11,12,14.

#### 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

LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

#### Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH031	Contact with acids liberates toxic gas.

#### 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)



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