Safety Data Sheet

Cat. # BC86

2,4,6-trinitrobenzene sulfonic acid; 1% Solution in methanol (CAS# 2508-19-2; F.W. 293.17)

Size: 10ml
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Product name: TNBS; 1% Solution
EC-No.: 219-717-7
Product code: 094T
Type of product: Pure substance
Formula: C6H3N3O9S
Synonyms: benzenesulfonic acid, 2,4,6-trinitro- / trinitrobenzenesulfonic acid
Product group: Trade product
BIG No: 12562

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

1.2.1. Relevant identified uses
No additional information available

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./G-Biosciences
9800 Page Avenue
63132-1429 Saint Louis - United States
T 800-628-7730 - F 314-991-1504
technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
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<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Belfast Centre)</td>
<td>Grovenor Road BT12 6BA Belfast</td>
<td>0344 892 0111</td>
<td></td>
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<tr>
<td></td>
<td>Royal Victoria Hospital</td>
<td></td>
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<td>United Kingdom</td>
<td>National Poisons Information Service (Birmingham Centre)</td>
<td>Dudley Road B18 7QH Birmingham</td>
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<td>City Hospital</td>
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<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CF64 2XX Cardiff</td>
<td>0344 892 0111</td>
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<tr>
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<td>Gwynwyn Ward, Llandough Hospital</td>
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<td>United Kingdom</td>
<td>National Poisons Information Service Edinburgh</td>
<td>Little France Crescent EH16 4SA Edinburgh</td>
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<td></td>
<td>Royal Infirmary of Edinburgh</td>
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<td></td>
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</tr>
<tr>
<td>United Kingdom</td>
<td>Guy's &amp; St Thomas' Poisons Unit</td>
<td>Avonley Road SE14 5ER London</td>
<td>+44 20 7188 7188</td>
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<td></td>
<td>Medical Toxicology Unit, Guy's &amp; St Thomas' Hospital</td>
<td></td>
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<td>Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle</td>
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<td>Regional Drugs and Therapeutics Centre, Wolfson Unit</td>
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 3  H301
Acute toxicity (inhalation:dust,mist) Category 3  H331
Skin corrosion/irritation, Category 2  H315
Serious eye damage/eye irritation, Category 2  H319
Specific target organ toxicity — Single exposure, Category 1 H370

Full text of H statements: see section 16
TNBS; 1% Solution
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Adverse physicochemical, human health and environmental effects
Causes damage to organs. Toxic if inhaled. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP):

<table>
<thead>
<tr>
<th>GHS06</th>
<th>GHS08</th>
</tr>
</thead>
</table>

CLP Signal word: Danger
Hazardous ingredients: methanol
Hazard statements (CLP):
- H301+H331 - Toxic if swallowed or if inhaled.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H370 - Causes damage to organs.

Precautionary statements (CLP):
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P302+P352 - IF ON SKIN: Wash with plenty of water.
- 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.
- P308+P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
- P311 - Call a POISON CENTER or doctor.
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P330 - Rinse mouth.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
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<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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<td>methanol</td>
<td>(CAS-No.) 67-56-1</td>
<td>&gt;=80</td>
<td>Flam. Liq. 2, H225, Acute Tox. 3 (Oral), H301, Acute Tox. 3 (Inhalation), H331, STOT SE 1, H370</td>
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<tr>
<td></td>
<td>(EC-No.) 200-659-6</td>
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<tr>
<td></td>
<td>(EC Index-No.) 603-001-00-X</td>
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<tr>
<td>2,4,6-trinitrobenzenesulfonic acid</td>
<td>(CAS-No.) 2508-19-2</td>
<td>0.5</td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 219-717-7</td>
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</table>

Specific concentration limits:

<table>
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<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>(CAS-No.) 67-56-1</td>
<td>( 3 &lt;= C &lt; 10) STOT SE 2, H371</td>
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<tr>
<td></td>
<td>(EC-No.) 200-659-6</td>
<td>( 10 &lt;= C &lt; 100) STOT SE 1, H370</td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 603-001-00-X</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:
- Remove the victim into fresh air.
- Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. If burned surface > 10%; take victim to hospital.
- Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist. Do not apply neutralizing agents.
- Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote. Call Poison Information Centre (www.big.be/antigif.htm).

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

Symptoms/effects after skin contact:
- Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact:
- Corrosion of the eye tissue.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:
- Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

5.2. Special hazards arising from the substance or mixture

Fire hazard:
- INDIRECT FIRE HAZARD: Fire/heat: explosive hazard bigger than fire hazard.

Explosion hazard:
- DIRECT EXPLOSION HAZARD: Explosive when dry. Substance belongs to the group of explosives.

Hazardous decomposition products in case of fire:
- Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire:
- Exposure to fire/heat: keep upwind.

Firefighting instructions:
- Extinguish/cool from behind cover/unmanned monitors. Do not move the load if exposed to heat. Dilute toxic gases with water spray. Depending on nature/size of load: consider extinguishment. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting:
- Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment:

Emergency procedures:

6.1.2. For emergency responders

Protective equipment:
- Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment:
- Contain released product, pump into suitable containers. Dam up the solid spill. Do not use compressed air for pumping over spills. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water.
Methods for cleaning up: Start with disposal only in the presence of experts. Carefully collect the spill/leftovers. Do not use compressed air for pumping over spills. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information: Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid raising dust. Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Avoid shock and friction. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Storage area: Store in a cool area. Keep locked up. Meet the legal requirements.
Special rules on packaging: SPECIAL REQUIREMENTS: closing. shock-absorbing. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
methanol (67-56-1)
EU - Occupational Exposure Limits
IOELV TWA (mg/m³) 260 mg/m³
IOELV TWA (ppm) 200 ppm

United Kingdom - Occupational Exposure Limits
WEL TWA (mg/m³) 266 mg/m³
WEL TWA (ppm) 200 ppm
WEL STEL (mg/m³) 333 mg/m³
WEL STEL (ppm) 250 ppm

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Hand protection:
Gloves
Eye protection:
Face shield
Skin and body protection:
Corrosion-proof clothing
Respiratory protection:
High vapour/gas concentration: self-contained respirator
Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: Solid
TNBS; 1% Solution
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Appearance: Solid.
Molecular mass: 293.17 g/mol
Colour: No data available
Odour: No data available
Odour threshold: No data available
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: Not applicable
Boiling point: No data available
Flash point: Not applicable
Auto-ignition temperature: Not applicable
Decomposition temperature: No data available
Flammability (solid, gas): Non flammable.
Vapour pressure: No data available
Relative vapour density at 20 °C: Not applicable
Relative density: Not applicable
Solubility: Soluble in water.
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: Not applicable
Oxidising properties: No data available
Explosive limits: Not applicable

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Toxic if swallowed.
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Toxic if inhaled.

TNBS; 1% Solution

ATE CLP (oral) 101.01 mg/kg bodyweight
ATE CLP (dust,mist) 0.505 mg/l/4h

methanol (67-56-1)

LD50 oral rat 1187 - 2769 mg/kg bodyweight (BASF test, Rat, Male / female, Weight of evidence, Aqueous solution, Oral, 7 day(s))
LD50 dermal rabbit 17100 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 inhalation rat (mg/l) 128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))

Skin corrosion/irritation: Causes skin irritation.
TNBS; 1% Solution

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5/11/2017 (Version: 1.1)

EN (English)

6/9

Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Causes damage to organs.
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: Causes severe skin burns. Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - water: No data available on ecotoxicity.
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

methanol (67-56-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>LC50 fish 1</td>
<td>15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)</td>
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<tr>
<td>EC50 Daphnia 1</td>
<td>18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, Locomotor effect)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>22000 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)</td>
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12.2. Persistence and degradability
TNBS; 1% Solution
Persistence and degradability: Biodegradability in water: no data available.

methanol (67-56-1)

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<thead>
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<th>Parameter</th>
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<td>Persistence and degradability</td>
<td>Readily biodegradable in the soil. Readily biodegradable in water.</td>
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<td>Biochemical oxygen demand (BOD)</td>
<td>0.6 - 1.12 g O₂/g substance</td>
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<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1.42 g O₂/g substance</td>
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<td>ThOD</td>
<td>1.5 g O₂/g substance</td>
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2,4,6-trinitrobenzenesulfonic acid (2508-19-2)

<table>
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<tr>
<td>Persistence and degradability</td>
<td>Biodegradability in water: no data available.</td>
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12.3. Bioaccumulative potential
TNBS; 1% Solution
Bioaccumulative potential: No bioaccumulation data available.

methanol (67-56-1)

<table>
<thead>
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<th>Parameter</th>
<th>Value</th>
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<tr>
<td>BCF fish 1</td>
<td>1 - 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77 (Experimental value)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

2,4,6-trinitrobenzenesulfonic acid (2508-19-2)

Bioaccumulative potential: No bioaccumulation data available.

12.4. Mobility in soil
methanol (67-56-1)

<table>
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<tr>
<th>Parameter</th>
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<tr>
<td>Surface tension</td>
<td>0.023 N/m (20 °C)</td>
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<tr>
<td>Log Koc</td>
<td>0.088 (log Koc, SRC PCKOCWIN v2.0, Calculated value)</td>
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Ecology - soil

Highly mobile in soil.

12.5. Results of PBT and vPvB assessment

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<tr>
<th>Component</th>
<th>PBT criteria</th>
<th>vPvB criteria</th>
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<tr>
<td>methanol (67-56-1)</td>
<td>This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII</td>
<td>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII</td>
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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Waste treatment methods</th>
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</thead>
<tbody>
<tr>
<td>Product/Packaging disposal recommendations</td>
<td>Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Specific incineration with energy recovery.</td>
</tr>
</tbody>
</table>

Additional information


European List of Waste (LoW) code

15 01 10* - packaging containing residues of or contaminated by dangerous substances
16 03 05* - organic wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
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<td>UN-No. (IATA)</td>
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<td>UN-No. (ADN)</td>
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<td>UN-No. (RID)</td>
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14.2. UN proper shipping name

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<tr>
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<td>Not regulated</td>
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<td>Proper Shipping Name (ADN)</td>
<td>trinitrobenzenesulphonic acid</td>
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<td>Proper Shipping Name (RID)</td>
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Transport document description (ADN)

UN 0386 trinitrobenzenesulphonic acid, 1.1D

14.3. Transport hazard class(es)

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<th>Transport hazard class(es) (ADR)</th>
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<td>Transport hazard class(es) (IATA)</td>
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<td>ADN</td>
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<td>Danger labels (ADN)</td>
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<table>
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<th>RID</th>
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14.4. Packing group

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<tbody>
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<td>Packing group (IMDG)</td>
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<td>Packing group (IATA)</td>
<td>Not regulated</td>
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<tr>
<td>Packing group (ADN)</td>
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</tr>
</tbody>
</table>
TNBS; 1% Solution
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Packing group (ADN): Not applicable
Packing group (RID): Not regulated

14.5. Environmental hazards
Dangerous for the environment: No
Marine pollutant: No
Other information: No supplementary information available

14.6. Special precautions for user
Overland transport
Not regulated
Transport by sea
Not regulated
Air transport
Not regulated
Inland waterway transport
Classification code (ADN): 1.1D
Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Full text of H- and EUH-statements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
</tr>
<tr>
<td>Acute Tox. 3 (Inhalation:vapour)</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
</tr>
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TNBS; 1% Solution
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.