

1 Identification

***Product identifier**

***Trade name:** MELTING POINT STANDARD 4-NITROTOLUENE 51 °C to 54 °C

***Article number:** BMP0535

***CAS Number:**

99-99-0

***EC number:**

202-808-0

***Index number:**

609-006-00-3

***Application of the substance / the mixture** Laboratory chemicals

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

***Manufacturer/Supplier:** See Below

***Manufacturer:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

Ireland.

Tel +353 61 472622

Fax +353 61 472642

***Supplier:**

BÜCHI Labortechnik AG

Meierseggsstrasse 40

CH - 9230 Flawil

Telephone: +41 71 394 63 63

FAX: +41 71 394 65 65

Email: buchi@buchi.com

Internet: www.buchi.com

***Information department:** sds@reagecon.ie

***Emergency telephone number:**

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

For Ireland call +(353)-19014670

For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

2 Hazard(s) identification

***Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity - Oral 3

H301 Toxic if swallowed.

Acute Toxicity - Dermal 3

H311 Toxic in contact with skin.

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to the liver, the blood and the immune system through prolonged or repeated exposure.

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***Label elements**

***GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

***Hazard pictograms**



GHS06 GHS08

***Signal word Danger**

***Hazard-determining components of labeling:**

4-nitrotoluene

***Hazard statements**

Toxic if swallowed, in contact with skin or if inhaled.

May cause damage to the liver, the blood and the immune system through prolonged or repeated exposure.

***Precautionary statements**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / protective clothing.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Rinse mouth.

If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

***Classification system:**

***NFPA ratings (scale 0-4)**



Health = 4

Fire = 1

Reactivity = 0

***Other hazards**

***Results of PBT and vPvB assessment**

***PBT:** Not applicable.

***vPvB:** Not applicable.

3 Composition/information on ingredients

***Chemical characterization: Substances**

***CAS No. Description**

CAS: 99-99-0 4-nitrotoluene

***Identification number(s)**

***EC number:** 202-808-0

***Index number:** 609-006-00-3



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Reviewed on 04/10/2025

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4 First-aid measures

*Description of first aid measures

*General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

*After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

*After skin contact: Immediately wash with water and soap and rinse thoroughly.

*After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

*After swallowing: Do not induce vomiting; immediately call for medical help.

*Information for doctor:

*Most important symptoms and effects, both acute and delayed No further relevant information available.

*Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

*Extinguishing media

*Suitable extinguishing agents: Use fire fighting measures that suit the environment.

*Special hazards arising from the substance or mixture No further relevant information available.

*Advice for firefighters

*Protective equipment: Mount respiratory protective device.

6 Accidental release measures

*Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

*Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

*Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

*Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*Protective Action Criteria for Chemicals

*PAC-1:

6 ppm

*PAC-2:

33 ppm

*PAC-3:

200 ppm

7 Handling and storage

*Handling:

*Precautions for safe handling

Thorough dedusting.

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Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

***Information about protection against explosions and fires:** Keep respiratory protective device available.

***Conditions for safe storage, including any incompatibilities**

***Storage:**

***Requirements to be met by storerooms and receptacles:** No special requirements.

***Information about storage in one common storage facility:** Not required.

***Further information about storage conditions:** Keep receptacle tightly sealed.

***Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

***Additional information about design of technical systems:** No further data; see section 7.

***Control parameters**

***Components with limit values that require monitoring at the workplace:**

CAS: 99-99-0 4-nitrotoluene

PEL Long-term value: 30 mg/m³, 5 ppm
Skin

REL Long-term value: 11 mg/m³, 2 ppm
Skin

TLV Long-term value: 2 ppm
Skin; BEI-M

***Ingredients with biological limit values:**

CAS: 99-99-0 4-nitrotoluene

BEI 1.5 % of hemoglobin
Medium: blood
Time: during or end of shift
Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

***Additional information:** The lists that were valid during the creation were used as basis.

***Exposure controls**

***Personal protective equipment:**

***General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

***Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Suitable respiratory protective device recommended.

***Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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***Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

***Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

***Eye protection:** Not required.

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information*****Appearance:**

Form:	Crystalline
Color:	Light yellow
*Odor:	Characteristic
*Odor threshold:	Not determined.

***pH-value:** Not applicable.

***Change in condition**

Melting point/Melting range:	51-54 °C (123.8-129.2 °F)
Boiling point/Boiling range:	239 °C (462.2 °F)

***Flash point:** 106 °C (222.8 °F)

***Flammability:** Product is not flammable.

***Auto igniting:** 450 °C (842 °F)

***Decomposition temperature:** Not determined.

***Ignition temperature:** Not determined.

***Danger of explosion:** Product does not present an explosion hazard.

***Explosion limits:**

Lower:	Not determined.
Upper:	1.6 Vol %

***Vapor pressure at 20 °C (68 °F):** 0.13 hPa (0.1 mm Hg)

***Density at 20 °C (68 °F):** 1.392 g/cm³ (11.61624 lbs/gal)

***Relative density** Not determined.

***Vapor density** Not applicable.

***Evaporation rate** Not applicable.

***Solubility in / Miscibility with**

Water at 20 °C (68 °F): 0.345 g/l

***Partition coefficient (n-octanol/water):** Not determined.

***Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.

Solids content: 100.0 %

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***Other information**

No further relevant information available.

10 Stability and reactivity

***Reactivity** No further relevant information available.

***Chemical stability**

***Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

***Possibility of hazardous reactions** No dangerous reactions known.

***Conditions to avoid** No further relevant information available.

***Incompatible materials:** No further relevant information available.

***Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

***Information on toxicological effects**

***Acute toxicity:**

***Primary irritant effect:**

***on the skin:** No irritant effect.

***on the eye:** No irritating effect.

***Sensitization:** No sensitizing effects known.

***Additional toxicological information:**

***Carcinogenic categories**

***IARC (International Agency for Research on Cancer)**

3

***NTP (National Toxicology Program)**

Substance is not listed.

***OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

12 Ecological information

***Toxicity**

***Aquatic toxicity:** No further relevant information available.

***Persistence and degradability** No further relevant information available.

***Behavior in environmental systems:**

***Bioaccumulative potential** No further relevant information available.

***Mobility in soil** No further relevant information available.

***Ecotoxicological effects:**

***Remark:** Toxic for fish

***Additional ecological information:**

***General notes:**

Water hazard class 2 (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

***Results of PBT and vPvB assessment**

***PBT:** Not applicable.

***vPvB:** Not applicable.

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*Other adverse effects No further relevant information available.

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13 Disposal considerations

*Waste treatment methods

*Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

*Uncleaned packagings:

*Recommendation: Disposal must be made according to official regulations.

14 Transport information

*UN-Number

*DOT, ADR, IMDG, IATA

UN3446

*UN proper shipping name

*DOT

Nitrotoluenes, solid

*ADR

3446 NITROTOLUENES, SOLID, ENVIRONMENTALLY
HAZARDOUS

1664 NITROTOLUENE, FERT

*IMDG

NITROTOLUENES, SOLID, MARINE POLLUTANT

*IATA

NITROTOLUENES, SOLID

*Transport hazard class(es)

*DOT



*Class

6.1 Toxic substances

*Label

6.1

*ADR, IMDG



*Class

6.1 Toxic substances

*Label

6.1

*IATA



*Class

6.1 Toxic substances

*Label

6.1

*Packing group

*DOT, ADR, IMDG, IATA

II

*Environmental hazards:

*Marine pollutant:

No

Yes (DOT)

Symbol (fish and tree)

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*Special marking (ADR):	Symbol (fish and tree)
*Special precautions for user	Warning: Toxic substances
*Hazard identification number (Kemler code):	60
*EMS Number:	F-A,S-A
*Stowage Category	A
*Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
*Transport/Additional information:	
*DOT	
*Remarks:	Special marking with the symbol (fish and tree).
*UN "Model Regulation":	UN 3446 NITROTOLUENES, SOLID, 6.1, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

*SARA Section 355 (extremely hazardous substances)

Substance is not listed.

*SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

*TSCA (Toxic Substances Control Act)

ACTIVE

*Hazardous Air Pollutants

Substance is not listed.

*Prop 65 - Chemicals known to cause cancer

Substance is not listed.

*Carcinogenicity categories

*EPA (Environmental Protection Agency)

Substance is not listed.

*TLV (Threshold Limit Value)

Substance is not listed.

*MAK (German Maximum Workplace Concentration)

3B

*NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

*GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

*Hazard pictograms



GHS06 GHS08

*Signal word Danger

*Hazard-determining components of labeling:

4-nitrotoluene

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***Hazard statements**

Toxic if swallowed, in contact with skin or if inhaled.
May cause damage to the liver, the blood and the immune system through prolonged or repeated exposure.

***Precautionary statements**

Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / protective clothing.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Rinse mouth.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor.
Call a poison center/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

***National regulations:**

***Disturbance regulations:**

Class	Share in %
I	100.0

***Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.

***Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Department issuing SDS:** Health and Safety

***Contact:** sds@reagecon.ie

***Date of preparation / last revision** 04/10/2025 / 19

***Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

**** Data compared to the previous version altered.**

US