Trinitrophenol TS (Picric Acid TS) US Pharmacopoeia Test Solution

Safety Data Sheet

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

Date of issue: 09/11/2016 Revision date: 09/11/2016 : Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Product name : Trinitrophenol TS (Picric Acid TS)
US Pharmacopoeia Test Solution

Product code : USPTS348

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

1.2.1. Relevant identified uses

Main use category : Professional use,Industrial use

Use of the substance/mixture : Laboratory chemical

Function or use category : Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Spectracer UK Ltd.
Second Floor,
27 Gloucester Place,
London,
W1U 8HU,
United Kingdom.

Tel: +44 (0) 207 193 9114
Fax:+44 (0) 203 432 4686
Email: contact@spectracer.co.uk
Web: www.spectracer.com

1.4. Emergency telephone number

Emergency number : Tel: +44(0)1933 445260 Option 1. Language: English only.
For Chemical Emergencies Only
Llewellyn (Safety Advisors) Europe Ltd

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,4,6-trinitrophenol, picric acid	(CAS No) 88-89-1 (EC no) 201-865-9 (EC index no) 609-009-00-X	1 - 5	Expl. 1.1, H201 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after skin contact : Irritation.

Symptoms/injuries after eye contact : Eye irritation.

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 : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

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

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

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 in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,4,6-trinitrophenol, picric acid (88-89-1)		
EU	IOELV TWA (mg/m³)	0,1 mg/m³ (Picric acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Austria	Local name	2,4,6-Trinitrophenol
Austria	MAK (mg/m³)	0,1 mg/m³
Austria	MAK Short time value (mg/m³)	0,2 mg/m³
Austria	Remark (AT)	H
Belgium	Local name	Acide picrique
Belgium	Limit value (mg/m³)	0,1 mg/m³
Bulgaria	Local name	Пикринова киселина•
Bulgaria	OEL TWA (mg/m³)	0,1 mg/m³
Croatia	Local name	Pikrinska kiselina; (2,4,6-trinitrofenol)
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	0,1 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	0,3 mg/m³
Croatia	Naznake (HR)	EU, E, T
Czech Republic	Local name	Kyselina pikrová
Czech Republic	Expoziční limity (PEL) (mg/m³)	0,1 mg/m³

2,4,6-trinitrophenol, picric acid (88-89-1)		
Czech Republic	Expoziční limity (NPK-P) (mg/m³)	0,5 mg/m³
Czech Republic	Remark (CZ)	D
Denmark	Local name	Picrinsyre
Denmark	Grænseværdie (langvarig) (mg/m³)	0,1 mg/m³
Denmark	Anmærkninger (DK)	EH
Estonia	Local name	Pikriinhape (2,4,6-trinitrofenool)
Estonia	OEL TWA (mg/m³)	0,1 mg/m³
Finland	Local name	Pikriinihappo
Finland	HTP-arvo (8h) (mg/m³)	0,1 mg/m³
Finland	HTP-arvo (15 min)	0,3 mg/m³
France	Local name	Acide picrique
France	VME (mg/m³)	0,1 mg/m³
Germany	Local name	2,4,6-Trinitrophenol(Pikrinsäure)
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	0,1 mg/m³
Germany	Remark (TRGS 900)	H,EU,13
Greece	OEL TWA (mg/m³)	0,1 mg/m³
Greece	OEL STEL (mg/m³)	0,3 mg/m³
Hungary	Local name	PIKRINSAV
Hungary	AK-érték	0,1 mg/m³
Hungary	CK-érték	0,1 mg/m³
Hungary	Megjegyzések (HU)	b, i, sz; I.
Ireland	Local name	Picric acid
Ireland	OEL (8 hours ref) (mg/m³)	0,1 mg/m³
Ireland	OEL (15 min ref) (mg/m3)	0,3 mg/m³
Ireland	Notes (IE)	Sk, IOELV
Latvia	Local name	Pikrīnskābe, (2,4,6-trinitrofenols)
Latvia	OEL TWA (mg/m³)	0,1 mg/m³
Lithuania	Local name	Pikrino rūgštis
Lithuania	IPRV (mg/m³)	0,1 mg/m³
Lithuania	Remark (LT)	Ū
Luxembourg	Local name	Acide pictrique
Luxembourg	OEL TWA (mg/m³)	0,1 mg/m³
Malta	Local name	Picric acid(8)
Malta	OEL TWA (mg/m³)	0,1 mg/m³
Netherlands	Grenswaarde TGG 8H (mg/m³)	0,1 mg/m³ (Picrinezuur; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Poland	Local name	Kwas pikrynowy
Poland	NDS (mg/m³)	0,1 mg/m³
Portugal	Local name	Ácido pícrico (2,4,6-Trinitrofenol)
Portugal	OEL TWA (mg/m³)	0,1 mg/m³
Romania	Local name	Acid picric
Romania	OEL TWA (mg/m³)	0,1 mg/m³
Slovenia	Local name	2,4,6-trinitrofenol (pikrinska kislina)
Slovenia	OEL TWA (mg/m³)	0,1 mg/m³
Spain	Local name	2,4,6-Trinitrofenol (Ácido pícrico)
Spain	VLA-ED (mg/m³)	0,1 mg/m³

2,4,6-trinitrophenol, picric acid (88-89-1)		
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados,estos valores tienen la misma validez que el resto de los valores adoptados por el país.)
United Kingdom	Local name	Picric acid
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m³
United Kingdom	WEL STEL (mg/m³)	0,3 mg/m³
Norway	Local name	Pikrinsyre
Norway	Grenseverdier (AN) (mg/m³)	0,1 mg/m³
Norway	Merknader (NO)	H
Switzerland	Local name	2,4,6-Trinitrophénol
Switzerland	VME (mg/m³)	0,1 mg/m³
Switzerland	VLE (mg/m³)	0,1 mg/m³
Switzerland	Remark (CH)	15 min
Australia	Local name	Picric acid
Australia	TWA (mg/m³)	0,1 mg/m³
USA - ACGIH	Local name	Picric acid
USA - ACGIH	ACGIH TWA (mg/m³)	0,1 mg/m³
USA - ACGIH	Remark (ACGIH)	Skin sens; dermatitis; eye irr
USA - OSHA	Local name	Picric acid
USA - OSHA	OSHA PEL (TWA) (mg/m³)	0,1 mg/m³

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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 : Liquid

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 : Not applicable

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Soluble in water. Completely miscible.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2,4,6-trinitrophenol, picric acid (88-89-1)	
LD50 oral rat	200 mg/kg (Rat)

Skin corrosion/irritation	:	Causes skin irritation.
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
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified

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.

2,4,6-trinitrophenol, picric acid (88-89-1)	
LC50 fish 2	170 mg/l (LC50; 96 h)
EC50 Daphnia 1	88 mg/l (EC50)
EC50 other aquatic organisms 1	72 mg/l (Microcystis aeruginosa; Cell numbers)

12.2. Persistence and degradability

2,4,6-trinitrophenol, picric acid (88-89-1)	
Persistence and degradability	Not readily biodegradable in water. Not degradable in the soil.
Chemical oxygen demand (COD)	0,92 g O_2/g substance
ThOD	0,98 g O_2/g substance

12.3. Bioaccumulative potential

2,4,6-trinitrophenol, picric acid (88-89-1)	
Log Pow	2,03
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 16 05 06* - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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

Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Trinitrophenol TS (Picric Acid TS) US Pharmacopoeia Test Solution

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Expl. 1.1	Explosives, Division 1.1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H201	Explosive; mass explosion hazard
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled

SDS EU Mod H F (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.