

 Spectracer
 Toluene

 Safety Data Sheet
 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Distribution 03/05/2018
 Revision date: 03/05/2018
 Version: 1.1

SECTION 1: Ider					
1.1. Identificati					
Product form		· Mi	xture		
Product name			enth-Normal (0.1 N) Sodium Metho	oxide in Toluene	
Product code			SPVS129		
	nded use and restric				
Use of the substance			eference material		
Recommended use	mixture		se as laboratory reagent		
		. 03	se as laboratory reagent		
Supplier Spectracer CPACHE 438 North Frederick A Suite 400, Gaithersbu MD 20877, USA.	Avenue,				
Tel: +1 (732) 210-854 Email: <u>info@spectrac</u> Web: <u>www.spectrace</u>	<u>er.com</u> r.com				
	y telephone number				
Emergency number		Fc	H: +44(0)1933445260 Option 1. or Chemical Emergencies Only ewellyn (Safety Advisors) Europe	Language: English only. Ltd	
-	Organization/Comp	-	Address	Emergency number	Comment
	American Association	n of		1-800-222-1222	
SECTION 2: Haz	Poison Control Cente	ers ation	9		
SECTION 2: Haz 2.1. Classificat GHS-US classification	Poison Control Cente card(s) identifica ion of the substance on	ers ation		vanour	
SECTION 2: Haz 2.1. Classificat GHS-US classification Flammable liquids Category 2	Poison Control Cente card(s) identification of the substance on H225	ers ation	Highly flammable liquid and	vapour	
SECTION 2: Haz 2.1. Classificat GHS-US classification Flammable liquids Category 2 Skin corrosion/irritation	Poison Control Cente card(s) identification of the substance on H225	ers ation		vapour	
SECTION 2: Haz 2.1. Classificat GHS-US classification Flammable liquids Category 2	Poison Control Cente card(s) identification of the substance on H225	ers ation	Highly flammable liquid and		
SECTION 2: Haz 2.1. Classificat GHS-US classification Flammable liquids Category 2 Skin corrosion/irritation Category 2 Reproductive toxicity Category 2 Specific target organ toxicity (single exposed	Poison Control Cente card(s) identification of the substance on H225 on H315 H361 H336	ers ation	Highly flammable liquid and Causes skin irritation	ility or the unborn child	
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	H361 - Suspected of damaging fertility or the unborn child H373 - May cause damage to organs through prolonged or repeated exposure
Precautionary statements (GHS-US)	 H373 - May cause damage to organs through prolonged or repeated exposure P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling. 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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P308+P313 - If exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool.
	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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
toluene	(CAS-No.) 108-88-3	>= 80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

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

SECTION 4: First-aid measures	
4.1. Description of first aid measure	95
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and	effects (acute and delayed)
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after ingestion	: Risk of lung edema.
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4.3.	Immediate medical attention and spec	cial treatment, if necessary
	ptomatically.	······································
	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishin	
		: Water spray. Dry powder. Foam. Carbon dioxide.
5.2.	Specific hazards arising from the che	
Fire haza		Highly flammable liquid and vapour.
Reactivity		: Highly flammable liquid and vapour.
5.3.	Special protective equipment and pre	
Protectior	n during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTIO	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equi	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
		: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. 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 rele	ease to the environment.	
6.3.	Methods and material for containmen	t and cleaning up
Methods	for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other info	ormation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
For furthe	er information refer to section 13.	
SECTIO	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
		: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene r	neasures	: 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
Technical	measures	: Ground/bond container and receiving equipment.
Storage c	conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
SECTIO	ON 8: Exposure controls/perso	nal protection
8.1.	Control parameters	
toluene	(108-88-3)	

toluene (108-88-3)			
ACGIH	Local name	Toluene	
ACGIH	ACGIH TWA (ppm)	20 ppm	
ACGIH	Remark (ACGIH)	Visual impair; female repro;	
ACGIH	Regulatory reference	ACGIH 2018	
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm 10 mins.	
07/00/0010			0.10

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toluene (108-88-3)		
OSHA	Remark (OSHA)	(2) See Table Z-2.
OSHA	Regulatory reference (US-OSHA)	OSHA

8.2. Appropriate engineering controls

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

Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	hemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: aromatic odor
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 111 °C
Flash point	: 4 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 29 hPa (20 °C)
Vapor pressure at 50 °C	: 109 hPa (50 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: 0.87
Solubility	Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in carbondisulfide. Soluble in acetic acid. Soluble in ethylacetate. Soluble in petroleum spirit.
Log Pow	: No data available
Auto-ignition temperature	: 480 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.69 mm²/s (20 °C)
Viscosity, dynamic	: 0.0006 Pa.s (20 °C)
Explosion limits	: 1.3 - 7 vol %
Explosive properties	: No data available
Oxidizing properties	: No data available

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9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivit	v
10.1. Reactivity	
Highly flammable liquid and vapour.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal of	conditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flam	es, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
Under normal conditions of storage and use, h	azardous decomposition products should not be produced.
SECTION 11: Toxicological information	ation
11.1. Information on toxicological effec	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
toluene (108-88-3)	
LD50 oral rat	> 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg
	bodyweight; Rat; Experimental value)
LD50 dermal rabbit	12223 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat; Literature study)
ATE US (dermal)	12223 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
toluene (108-88-3)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single exposure	e : May cause drowsiness or dizziness.
toluene (108-88-3)	
Specific target organ toxicity – single exposu	re May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
toluene (108-88-3)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: 0.69 mm²/s (20 °C)
Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after ingestion	: Risk of lung edema.

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SECTION 12: Ecological informatio	n
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

toluc	no (100 00 2)	
12.2.	Persistence and	degradability

Readily biodegradable in water. Biodegradable in soil. Low potential for adsorption in soil.
2.15 g O₂/g substance
2.52 g O₂/g substance
3.13 g O₂/g substance
0.69

12.3. Bioaccumulative potential

toluene (108-88-3)			
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)		
Log Pow	2.73 (Experimental value; Other; 20 °C)		
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).		

12.4. Mobility in soil

toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN1294 Toluene, 3, II
UN-No.(DOT)	: UN1294
Proper Shipping Name (DOT)	: Toluene
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	PLANAALE LEDUID 3
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal

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DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Emergency Response Guide (ERG) Number	: 130
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description	: UN1294 TOLUENE, 3, II
UN-No. (TDG)	: UN1294
Proper Shipping Name (Transportation of Dangerous Goods)	: TOLUENE
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
Explosive Limit and Limited Quantity Index	: 1L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5L
Transport by sea	
Transport document description (IMDG)	: UN 1294 TOLUENE, 3, II (7°C c.c.)
UN-No. (IMDG)	: 1294
Proper Shipping Name (IMDG)	: TOLUENE
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 1L
Air transport	
Transport document description (IATA)	: UN 1294 Toluene, 3, II
UN-No. (IATA)	: 1294
Proper Shipping Name (IATA)	: Toluene
Class (IATA)	: 3 - Flammable Liquids

SECTION 15: Regulatory informat

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

toluene		CAS-No. 108-88-3	>= 90%
toluene (108-88-3)			
Listed on EPA Hazardous Air Pollutant (HAPS)			
Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	1000 lb		

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15.2. International regulations

CANADA

toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

 MARNING:
 This product can expose you to toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
toluene(108-88-3)		x				7000 µg/day

Component	State or local regulations				
toluene(108-88-3)					

SECTION 16: Other information

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Revision date

: 03/05/2018

Full text of H-phrases:

	· · · · · · · · · · · · · · · · · · ·	
	H225	Highly flammable liquid and vapour
	H304	May be fatal if swallowed and enters airways
	H315	Causes skin irritation
	H336	May cause drowsiness or dizziness
	H361	Suspected of damaging fertility or the unborn child
	H373	May cause damage to organs through prolonged or repeated exposure
NFPA health hazard		: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFF	PA fire hazard	 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFF	PA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Haz	ard Rating	·
Hea	alth	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability		: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical		: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will N react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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.