

# SAFETY DATA SHEET

Revision Date 29-Aug-2017

**Revision Number** 1

## Section 1. Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier	
Proc	duct Name	

N1.0

Contains Decane, 5-Methylnonane, 3-Methylnonane Contains Decane, 5-Methylnonane, 3-Methylnonane

1.2. Relevant identified uses of the substance or mixture and uses advised against
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Viscometer and/or density measurement equipment calibration and performance **Recommended Use** verification reference standard

Uses advised against

No information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier Cannon Instrument Company 2139 High Tech Rd. State College, PA 16803-1733 TEL: (814) 353-8000; (800) 676-6232 For further information, please contact E-mail Address No information available.

#### 1.4. Emergency telephone number

**Emergency Telephone** (800) 255-3924 Domestic CHEM-TEL Inc. Number

112

+1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)

Europe

Section 2. Hazards identification

## 2.1. - Classification of the substance or mixture

### **REGULATION (EC) No 1272/2008**

Aspiration Toxicity	Category 1
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

#### **Physical Hazards**

Flammable liquids	Category 3
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#### 2.2. Label Elements

#### WPS-CAN-003 - N1.0



Signal Word

Danger

#### Hazard Statements

H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H336 - May cause drowsiness or dizziness
H226 - Flammable liquid and vapor

#### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P331 - Do NOT induce vomiting
P302 + P352 - IF ON SKIN: Wash with plenty of soap and 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

#### 2.3. Other information

Prolonged skin contact may defat the skin and produce dermatitis. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

## Section 3. Composition/information on ingredients

#### 3.1. Substances

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification	REACH No.
Decane	204-686-4	124-18-5	>94.5	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Flam Liq. 3 (H226)	No data available
3-Methylnonane	227-631-6	5911-04-6	<5	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315)	No data available
5-Methylnonane	-	15869-85-9	<5	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315)	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16

#### 4.1. Description of first-aid measures

Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Obtain medical attention if irritation persists.	
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.	
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.	
4.2. Most important symptoms and effects, both acute and delayed		
Most Important Symptoms/Effects	Drowsiness. Dizziness. Irritation. Difficulty in breathing. Coughing and/ or wheezing. Nausea. Tremors. Headaches. Neurological disorders.	
4.3. Indication of immediate medical attention and special treatment needed		
Notes to Physician	Aspiration hazard.	

## Section 5. Fire-fighting measures

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

## Extinguishing media which must not be used for safety reasons

No information available.

## 5.2. Special hazards arising from the substance or mixture

#### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

#### 6.3. Methods and materials for containment and cleaning up

Dike to collect large liquid spills. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

#### 6.4. Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

#### 7.1. Precautions for Safe Handling

#### Handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

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

Exposure Scenario No information available.

#### Other Guidelines

No information available.

## Section 8. Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical Name	EU	Austria	Belgium	Cyprus	Denmark
Decane 124-18-5					TWA: 45 ppm TWA: 250 mg/m <sup>3</sup>
Chemical Name	Finland	France	Germany	Gibraltar	Greece
Decane		TWA: 1000 mg/m <sup>3</sup>			
124-18-5		STEL: 1500 mg/m <sup>3</sup>			
3-Methylnonane		TWA: 1000 mg/m <sup>3</sup>			
5911-04-6		STEL: 1500 mg/m <sup>3</sup>			
5-Methylnonane		TWA: 1000 mg/m <sup>3</sup>			
15869-85-9		STEL: 1500 mg/m <sup>3</sup>			
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Decane		TWA: 40 ppm			
124-18-5		TWA: 275 mg/m <sup>3</sup>			
		STEL: 40 ppm			
		STEL: 275 mg/m <sup>3</sup>			
3-Methylnonane		TWA: 40 ppm			
5911-04-6		TWA: 275 mg/m <sup>3</sup>			
		STEL: 40 ppm			
		STEL: 275 mg/m <sup>3</sup>			
5-Methylnonane		TWA: 40 ppm			
15869-85-9		TWA: 275 mg/m <sup>3</sup>			
		STEL: 40 ppm			
		STEL: 275 mg/m <sup>3</sup>			

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Derived No Effect Level** 

No information available.

Predicted No Effect Concentration	No information available.
(PNEC)	

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas.
Personal protection equipment should be chosen according to the CEN standards
Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles.
Wear fire/flame resistant/retardant clothing.
Impervious gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental Exposure Controls No information available.

## Section 9. Physical and chemical properties

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

Physical State Odor	Liquid Hydrocarbon-like	Appearance	Colorless
0401	nyarooanoon me		
Property	Values	Remarks/ -	Method
H	No data available	None knowr	
Melting Point/Range	No data available	None knowr	)
Boiling Point/Boiling Range	171 °C	None knowr	)
Flash Point	44 °C	Closed cup	
Evaporation rate	No data available	None knowr	1
Flammability (solid, gas)	No data available	None knowr	)
Flammability Limits in Air	No data available	None knowr	1
Vapor Pressure	No data available.	None knowr	]
Vapor Density	No data available.	None knowr	1
Relative Density	No data available 0.73	None knowr	1
Water Solubility	Insoluble in water.	None knowr	)
Solubility in other solvents	Soluble in solvents.	None knowr	
Partition coefficient: n-octan	ol/waterNo data available	None knowr	)
Autoignition Temperature	No data available	None knowr	
Decomposition Temperature		None knowr	
Viscosity	1 cSt @ 40°C	None known	1
Explosive Properties	No information availabl	e	
Oxidizing Properties	No information availabl	e	
5 1			
9.2. Other information			
VOC Content (%)	No information availabl	e	
	Section 10. Sta	bility and reactivity	

**<u>10.1. Reactivity</u>** Not reactive under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Ignitions sources - heat, sparks and open flames.

#### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

## 10.6. Hazardous decomposition products

Carbon oxides.

## Section 11. Toxicological information

#### 11.1. Information on toxicological effects

Product Information	•			
Inhalation		/ cause irritation of respiratory tra ausea, headache, dizziness, vom		
Eye Contact	Expected to be an irritant l	based on components.		
Skin Contact	Expected to be an irritant I and produce dermatitis.	based on components. Prolonged	d skin contact may defat the skin	
Ingestion	pneumonitis. Ingestion ma	wallowed. Aspiration may cause y cause gastrointestinal irritation, s system depression. May be fata	, nausea, vomiting and diarrhea.	
Acute Toxicity	5.5% of the mixture consis	sts of ingredient(s) of unknown to:	xicity.	
The following values are calcu	lated based on chapter 3	.1 of the GHS document:		
D50 Oral	99,999.00 mg/kg			
_D50 Dermal	99,999.00 mg/kg			
Gas	99,999.00 mg/L			
Dust/Mist	1.60 mg/L			
Vapor	12.00 mg/L			
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Decane	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 1369 ppm (Rat) 8 h	

Sensitization Mutagenic Effects Carcinogenic Effects	No information available. No information available. No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
STOT - single exposure	May cause drowsiness or dizziness
STOT - repeated exposure	See listed target organs below.
Target Organ Effects	Central nervous system (CNS). Liver. Kidney. Respiratory system. Cardiovascular system.
Neurological Effects	Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Aspiration Hazard	May be fatal if swallowed and enters airways.

## Section 12. Ecological information

## 12.1. Toxicity

#### Ecotoxicity Effects

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Decane	EC50 24 h: = 0.043 mg/L			EC50 48 h: = 18 mg/L
	(Chlorella vulgaris)			(Daphnia magna)

### 12.2. Persistence and degradability

Expected to be biodegradable

## 12.3. Bioaccumulative potential

Chemical Name	Log Pow

#### WPS-CAN-003 - N1.0

Decane

5.1

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

#### 13.1. Waste treatment methods

Section 14 Transport information		
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.	
Waste from Residues / Unused Products	Dispose of in accordance with local regulations.	

### Section 14. Transport information

Note:

The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

IMDG/IMO 14.1. UN-Number	UN2247
	0
14.2. Proper Shipping Name	n-Decane
14.3. Hazard Class	3
14.4. Packing Group	III
Description	UN2247, n-Decane, 3, III, (44°C c.c.)
14.5. Marine Pollutant	None
14.6. Special Provisions	None
EmŠ No.	F-E, S-E
14.7. Transport in bulk according	No information available.
to Annex II of MARPOL 73/78 and	

the IBC Code RID 14.1. UN-Number UN2247 14.2. Proper Shipping Name n-Decane 14.3. Hazard Class 3 14.4. Packing Group Ш Description

14.6. Special Provisions

**Classification Code** 

UN2247, n-Decane, 3, III 14.5. Environmental hazard None None F1

UN2247
n-Decane
3
3
111
UN2247, n-Decane, 3, III, (D/E)
None
None

Classification Code	F1
ICAO 14.1. UN-Number 14.2. Proper shipping name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions	UN2247 n-Decane 3 III UN2247, n-Decane, 3, III None None
IATA 14.1. UN-Number 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions ERG Code	UN2247 n-Decane 3 III UN2247, n-Decane, 3, III None None 3L

## Section 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

TSCA	Not determined
EINECS/ELINCS	Not determined
DSL/NDSL	Complies
PICCS	Not determined
ENCS	Complies
IECSC	Not determined
AICS	Not determined
KECL	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

#### 15.2. Chemical Safety Assessment

No information available

## Section 16. Other information

#### Full text of H-Statements referred to under sections 2 and 3

H336 - May cause drowsiness or dizziness

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H226 - Flammable liquid and vapor

Key literature references and sources for data www.ChemADVISOR.com/

**Issuing Date** 

24-Apr-2014

#### WPS-CAN-003 - N1.0

**Revision Date** 

29-Aug-2017

(M)SDS sections updated: 3, 8.

Revision Note

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

#### General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet