



SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	No-Tox Food Grade Dry PTFE Spray
Product code	301055
Registration number	-
Synonyms	Old product Code 61710; For Package Codes 301055XXXXXX
Issue date	24-October-2012
Version number	8,0
Revision date	11-February-2020
Supersedes date	10-July-2018

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

Identified uses	Lubricant
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Calumet Branded Products, LLC
Address	Calumet International, Inc. Pa Monument Chemical BVBA Haven 1972, Ketenislaan 3 B-9130 Kallo (Kiedrecht) BE

Division

Telephone +32 3 570 25 20

e-mail technical@calumetspecialty.com

Contact person Not available.

1.4. Emergency telephone number CHEMTREC 1-703-527-3887

Netherlands: (+31) 30 274 88 88

NVIC: (Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen).

Italia; Milano: 0266101029

Italia; Roma: 0630544343

NSF Food-grade lubricant. NSF H1 Registered Number 147059.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
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Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
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Hazard summary

Aerosol CONTENTS UNDER PRESSURE.

Pressurised container may explode when exposed to heat or flame. May cause drowsiness and dizziness. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects. This is a consumer care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and / or swelling upon prolonged or repeated skin contact or eye contact.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:

Heptane, Polytetrafluoroethylene, White mineral oil (petroleum)

Hazard pictograms



Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist or vapour.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves.

Response

P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE/doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information

38,23 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 38,23 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Heptane	60 - 80	142-82-5 205-563-8	01-2119475515-33-0015	601-008-00-2	#
Classification:	Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				C
White mineral oil (petroleum)	1 - < 3	8042-47-5 232-455-8	01-2119487078-27	-	
Classification:	Asp. Tox. 1;H304				
Polytetrafluoroethylene	2 - 10	9002-84-0	-	-	
Classification:	-				

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing media Foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
For emergency responders	Not available.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Keep out of the reach of children.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value
Butane (CAS 106-97-8)	Ceiling	3800 mg/m3
		1600 ppm
	MAK	1900 mg/m3
Heptane (CAS 142-82-5)		800 ppm
	MAK	2000 mg/m3
	STEL	500 ppm
Propane (CAS 74-98-6)		8000 mg/m3
		2000 ppm
	Ceiling	3600 mg/m3
	2000 ppm	
	MAK	1800 mg/m3
		1000 ppm

Belgium. Exposure Limit Values

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1000 ppm

Belgium. Exposure Limit Values Components

Components	Type	Value
Propane (CAS 74-98-6)	TWA	1000 ppm

Belgium. Exposure Limit Values. Components

Components	Type	Value	Form
Heptane (CAS 142-82-5)	STEL	2085 mg/m3	
		500 ppm	
	TWA	1664 mg/m3	
		400 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1800 mg/m3
Heptane (CAS 142-82-5)	TWA	1600 mg/m3
Propane (CAS 74-98-6)	TWA	1800 mg/m3
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value
Butane (CAS 106-97-8)	MAC	1450 mg/m3
		10 ppm
	STEL	1810 mg/m3
		750 ppm
Heptane (CAS 142-82-5)	MAC	2085 mg/m3
		500 ppm

Czech Republic. OELs. Government Decree 361 Components

Components	Type	Value	Form
Heptane (CAS 142-82-5)	Ceiling	2000 mg/m3	
	TWA	1000 mg/m3	
White mineral oil (petroleum) (CAS 8042-47-5)	Ceiling	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

Denmark. Exposure Limit Values Components

Components	Type	Value	Form
Butane (CAS 106-97-8)	TLV	1200 mg/m3	
		500 ppm	
Heptane (CAS 142-82-5)	TLV	820 mg/m3	
		200 ppm	
Propane (CAS 74-98-6)	TLV	1800 mg/m3	
		1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TLV	1 mg/m3	Mist.

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1500 mg/m3

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value
Heptane (CAS 142-82-5)	TWA	800 ppm
		2085 mg/m ³
Propane (CAS 74-98-6)	TWA	500 ppm
		1800 mg/m ³
		1000 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Butane (CAS 106-97-8)	STEL	2400 mg/m ³
	TWA	1000 ppm
Heptane (CAS 142-82-5)	TWA	1900 mg/m ³
	STEL	800 ppm
	TWA	2100 mg/m ³
Propane (CAS 74-98-6)	TWA	500 ppm
	STEL	1200 mg/m ³
	TWA	300 ppm
	STEL	2000 mg/m ³
	TWA	1100 ppm
	TWA	1500 mg/m ³
	TWA	800 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
Butane (CAS 106-97-8)	VME	1900 mg/m ³
		800 ppm
Heptane (CAS 142-82-5)	VLE	2085 mg/m ³
	VME	500 ppm
	VME	1668 mg/m ³
		400 ppm

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	2400 mg/m ³	
		1000 ppm	
Heptane (CAS 142-82-5)	TWA	2100 mg/m ³	
		500 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m ³	
		1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m ³	Respirable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Butane (CAS 106-97-8)	AGW	2400 mg/m ³	
		1000 ppm	
Propane (CAS 74-98-6)	AGW	1800 mg/m ³	
		1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	AGW	5 mg/m ³	Respirable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	2350 mg/m3	
		1000 ppm	
Heptane (CAS 142-82-5)	STEL	2000 mg/m3	
		500 ppm	
	TWA	2000 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form	
Butane (CAS 106-97-8)	STEL	9400 mg/m3		
		TWA		2350 mg/m3
Heptane (CAS 142-82-5)	STEL	8000 mg/m3		
		TWA		2000 mg/m3
White mineral oil (petroleum) (CAS 8042-47-5)	Ceiling	5 mg/m3		Mist.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	1200 mg/m3	
		500 ppm	
Heptane (CAS 142-82-5)	TWA	820 mg/m3	
		200 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	1 mg/m3	Mist.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	1000 ppm	
Heptane (CAS 142-82-5)	TWA	2085 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	TWA	1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	1000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
		TWA	
	TWA	500 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Butane (CAS 106-97-8)	STEL	300 mg/m3
	TWA	300 mg/m3
Heptane (CAS 142-82-5)	STEL	2085 mg/m3
		500 ppm
	TWA	350 mg/m3
Propane (CAS 74-98-6)		85 ppm
	STEL	300 mg/m3
	TWA	1800 mg/m3
		1000 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value	Form
Heptane (CAS 142-82-5)	STEL	3128 mg/m3	
		750 ppm	
	TWA	2085 mg/m3	
White mineral oil (petroleum) (CAS 8042-47-5)		500 ppm	
	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
Heptane (CAS 142-82-5)	TWA	2085 mg/m3
		500 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
Heptane (CAS 142-82-5)	TWA	2085 mg/m3
		500 ppm

Netherlands. OELs (binding)

Components	Type	Value	Form
Heptane (CAS 142-82-5)	STEL	1600 mg/m3	
	TWA	1200 mg/m3	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Butane (CAS 106-97-8)	TLV	600 mg/m3	
		250 ppm	
Heptane (CAS 142-82-5)	TLV	800 mg/m3	
		200 ppm	
Propane (CAS 74-98-6)	TLV	900 mg/m3	
		500 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	TLV	1 mg/m3	Mist.

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	3000 mg/m3	

Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817

Components	Type	Value	Form
Heptane (CAS 142-82-5)	TWA	1900 mg/m ³	
	STEL	2000 mg/m ³	
Propane (CAS 74-98-6)	TWA	1200 mg/m ³	
	TWA	1800 mg/m ³	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m ³	Inhalable fraction.

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value	
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³ 500 ppm	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	1000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Propane (CAS 74-98-6)	TWA	2500 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	
Butane (CAS 106-97-8)	STEL	1500 mg/m ³	
	TWA	1200 mg/m ³	
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³ 500 ppm	
	STEL	1800 mg/m ³ 1000 ppm	
Propane (CAS 74-98-6)	TWA	1400 mg/m ³ 778 ppm	
	STEL	10 mg/m ³	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m ³	

Slovakia. OELs for carcinogens and mutagens. Regulation No. 46/2002 on carcinogenic and mutagenic substances

Components	Type	Value	
Butane (CAS 106-97-8)	TWA	2400 mg/m ³ 1000 ppm	

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³ 500 ppm	
	STEL	3 mg/m ³	Fume and mist.
White mineral oil (petroleum) (CAS 8042-47-5)		15 ppm	Fume and mist.
	TWA	1 mg/m ³	Fume and mist.
		5 ppm	Fume and mist.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value
Butane (CAS 106-97-8)	TWA	2400 mg/m ³
		1000 ppm
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³
		500 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m ³
		1000 ppm

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Butane (CAS 106-97-8)	TWA	1000 ppm	
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³	
		500 ppm	
Propane (CAS 74-98-6)	TWA	1000 ppm	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Components	Type	Value	Form
Heptane (CAS 142-82-5)	STEL	1200 mg/m ³	
		300 ppm	
	TWA	800 mg/m ³	
White mineral oil (petroleum) (CAS 8042-47-5)	STEL	200 ppm	
		3 mg/m ³	Mist.
	TWA	1 mg/m ³	Mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Butane (CAS 106-97-8)	STEL	7200 mg/m ³	
		3200 ppm	
Heptane (CAS 142-82-5)	TWA	1900 mg/m ³	
		800 ppm	
	STEL	1600 mg/m ³	
Propane (CAS 74-98-6)	TWA	400 ppm	
		1600 mg/m ³	
	STEL	7200 mg/m ³	
White mineral oil (petroleum) (CAS 8042-47-5)	TWA	4000 ppm	
		1800 mg/m ³	
		1000 ppm	
	TWA	5 mg/m ³	Inhalable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Butane (CAS 106-97-8)	STEL	1810 mg/m ³
		750 ppm
	TWA	1450 mg/m ³
		600 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³ 500 ppm

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Heptane (CAS 142-82-5)	TWA	2085 mg/m ³ 500 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Chemical respirator with organic vapour cartridge and full facepiece.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

- Other Wear appropriate chemical resistant clothing.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

Physical state Liquid.

Form Aerosol

Colour Not available.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point -187,6 °C (-305,68 °F) estimated

Initial boiling point and boiling range -31,83 °C (-25,3 °F) estimated

Flash point -104,0 °C (-155,2 °F) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 1,9 % estimated

Flammability limit - upper (%)	9,5 % estimated
Vapour pressure	63,27 hPa estimated
Density	615,00 kg/m ³
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Heat of combustion (NFPA 30B)	39,21 kJ/g estimated
Percent volatile	92 %
Specific gravity	0,62
VOC	92 %

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Nitrates. Fluorine. Chlorine.
10.6. Hazardous decomposition products	Irritants. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity Narcotic effects.

Product	Species	Test Results
No-Tox Food Grade Dry PTFE Spray		
<u>Acute</u>		
Inhalation		
LC50	Mouse	5333 mg/l, 2 Hours estimated
	Rat	8364 mg/l, 15 Minutes estimated
		162 mg/l, 4 Hours estimated
LD50	Mouse	121 mg/l, 2 Hours estimated

Components	Species	Test Results
Heptane (CAS 142-82-5)		
Acute		
Inhalation		
LC50	Rat	103 mg/l, 4 Hours
White mineral oil (petroleum) (CAS 8042-47-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

White mineral oil (petroleum) (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

Product	Species	Test Results
No-Tox Food Grade Dry PTFE Spray		
Aquatic		
Fish	LC50 Fish	4289,5122 mg/l, 96 hours estimated

Components	Species	Test Results
Heptane (CAS 142-82-5)		
Aquatic		
Fish	LC50 Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Heptane 4,66

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Hazard No. (ADR)	Not available.
Tunnel restriction code	Not available.
14.4. Packing group	Not available.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

RID

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
14.4. Packing group	Not available.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

ADN

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
14.4. Packing group	Not available.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not available.

IATA

14.1. UN number	UN1950
14.2. UN proper shipping name	Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1

Subsidiary risk -

14.4. Packing group Not available.**14.5. Environmental hazards** No.

ERG Code 10L

14.6. Special precautions for user Not available.**Other information****Passenger and cargo aircraft** Allowed with restrictions.**Cargo aircraft only** Allowed with restrictions.**IMDG****14.1. UN number** UN1950**14.2. UN proper shipping name** AEROSOLS, flammable**14.3. Transport hazard class(es)**

Class 2.1

Subsidiary risk 5F

14.4. Packing group Not available.**14.5. Environmental hazards****Marine pollutant** No.**EmS** Not available.**14.6. Special precautions for user** Not available.**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

ADN; ADR; IATA; RID

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Authorisations****Restrictions on use****Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Heptane (CAS 142-82-5)

Other EU regulations**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Heptane (CAS 142-82-5)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations Not available

References NFPA Hazardous Chemical Data Sheets
National Fire Protection Agency
National Fire Protection Agency
NFPA Hazardous Chemical Data Sheets
NFPA Hazardous Chemical Data Sheets
National Fire Protection Agency

Information on evaluation method leading to the classification of mixture Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

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.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Revision information SECTION 16: Other information: Information on evaluation method leading to the classification of mixture

Training information Follow training instructions when handling this material.

Disclaimer Calumet Branded Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available