# **MATERIAL SAFETY DATA SHEET** 165-021

# 1. Product and Company Identification

**Product identifier** 

LPS® Force 842

Version #

Issue date

07-19-2015

CAS#

Mixture

**Part Number** 

02516, C02516

Product use

A fast evaporating dry-film lubricant designed for reducing sliding friction under high loads.

Manufacturer information

ITW Pro Brands 4647 Hugh Howell Rd Tucker, GA 30084 **United States** 

lpssds@itwprobrands.com

www.lpslabs.com

1-800-241-8334 /

770-243-8800

Chemtrec

1-800-424-9300

Supplier

Not available.

# 2. Hazards Identification

**Emergency overview** 

**DANGER** 

Flammable. Aerosol. Pressurized container may explode when exposed to heat or flame. Will be

easily ignited by heat, spark or flames.

May damage fertility or the unborn child. Causes skin irritation. Causes serious eye irritation.

Vapors may cause drowsiness and dizziness.

Potential health effects

Routes of exposure

Inhalation. Skin contact. Eye contact.

Eyes

Contact with eyes may cause irritation. Do not get this material in contact with eyes.

Skin

Do not get this material in contact with skin. May cause skin irritation.

Inhalation

Intentional misuse by concentrating and inhaling the product can be harmful or fatal. May cause

irritation of respiratory tract. Prolonged inhalation may be harmful. Avoid breathing

dust/fume/gas/mist/vapors/spray.

Ingestion

Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion. Irritating. May cause nausea, stomach pain and vomiting. Do not ingest.

Central nervous system. Eyes. Respiratory system. Skin.

**Target organs Chronic effects** 

Pregnant women or women of child-bearing age should not be exposed to this product.

Signs and symptoms

Irritating to eyes and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Vapors

have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Decrease in motor functions. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting. Prolonged exposure may cause chronic effects.

Potential environmental effects May cause long-term adverse effects in the environment.

### 3. Composition / Information on Ingredients

CAS#	Percent
107-83-5	20 - 30
67-63-0	20 - 30
79-29-8	5 - 10
96-14-0	5 - 10
75-83-2	1 - 5
95-63-6	1 - 3
	107-83-5 67-63-0 79-29-8 96-14-0 75-83-2

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Components	CAS#	Percent
Aromatic Solvent	64742-95-6	1 - 3
N-HEXANE	110-54-3	1 - 3
Xylene	1330-20-7	< 1

### 4. First Aid Measures

First aid procedures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical attention if irritation develops and

persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Only induce vomiting at the instruction of

medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs.

Notes to physician Provide general supportive measures and treat symptomatically. In case of shortness of breath,

give oxygen. Keep victim under observation. Symptoms may be delayed.

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

# 5. Fire Fighting Measures

Flammable properties Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may

rocket. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing

media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising

from the chemical

Protective equipment for

firefighters

equipment/instructions

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Containers should be cooled

with water to prevent vapor pressure build up.

Explosion data

Sensitivity to static

discharge

Yes

Sensitivity to mechanical

impact

None known.

**Hazardous combustion** 

products

May include oxides of carbon.

General fire hazards

Flammable aerosol.

### 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Pay attention to flashback. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For

personal protection, see section 8 of the MSDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Use water spray to reduce vapors or divert vapor cloud drift. Keep out of low areas. Prevent entry into waterways, sewer, basements or confined areas.

### Methods for cleaning up

Should not be released into the environment. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Isolate area until gas has dispersed. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS.

### Other information

Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

### Handling

Pressurized 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. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure. Do not get this material on clothing. Do not use in areas without adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling.

### Storage

The pressure in sealed containers can increase under the influence of heat. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Keep container dry. Keep in an area equipped with sprinklers.

# 8. Exposure Controls / Personal Protection

**US. ACGIH Threshold Limit Values** 

### Occupational exposure limits

Components	Туре	Value	
2,3-DIMETHYLBUTANE (CAS 79-29-8)	STEL	1000 ppm	<del></del>
,	TWA	500 ppm	
2-METHYLPENTANE (CAS 107-83-5)	STEL	1000 ppm	
,	TWA	500 ppm	
3-Methylpentane (CAS 96-14-0)	STEL	1000 ppm	
,	TWA	500 ppm	
ISOPROPANOL (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
NEOHEXANE (CAS 75-83-2)	STEL	1000 ppm	
	TWA	500 ppm	
N-HEXANE (CAS 110-54-3)	TWA	50 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
Canada. Alberta OELs (Occupatio	nal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
2-METHYLPENTANE (CAS 107-83-5)	STEL	3500 mg/m3	_
		. 1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	
3-Methylpentane (CAS 96-14-0)	STEL	3500 mg/m3	
		1000 ppm	
	TWA	1760 mg/m3	
	•	500 ppm	
ISOPROPANOL (CAS 67-63-0)	STEL	984 mg/m3	
·		400 ppm	
	TWA	492 mg/m3	
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Components	Туре	Value
		200 ppm
I-HEXANE (CAS 110-54-3)	TWA	.176 mg/m3
	•	50 ppm
ylene (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm
Canada. British Columbia OELs. (Cafety Regulation 296/97, as amen		s for Chemical Substances, Occupational Health and
components	Туре	Value
SOPROPANOL (CAS	STEL	400 ppm
7-63-0)	3166	- 400 μμπ
, 55 5,	TWA	200 ppm
I-HEXANE (CAS 110-54-3)	TWA	20 ppm
ylene (CAS 1330-20-7)	STEL	150 ppm
yiono (e/io 1000 <u>L</u> 0 17	TWA	100 ppm
Canada. Manitoba OELs (Reg. 217)		• •
Components	Type	Value
,3-DIMETHYLBUTANE	STEL	1000 ppm
CAS 79-29-8)		E00 nom
	TWA	500 ppm
-METHYLPENTANE (CAS 07-83-5)	STEL	1000 ppm
	TWA	500 ppm
-Methylpentane (CAS 6-14-0)	STEL	1900 ppm
	TWA	500 ppm
SOPROPANOL (CAS 7-63-0)	STEL	400 ppm
	TWA	200 ppm
IEOHEXANE (CAS '5-83-2)	STEL	1000 ppm
	TWA	500 ppm
I-HEXANE (CAS 110-54-3)	TWA	50 ppm
(ylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
Canada. Ontario OELs. (Control of	Exposure to Biological or C	hemical Agents)
Components	Туре	Value
SOPROPANOL (CAS 57-63-0)	STEL	400 ppm
	TWA	200 ppm
N-HEXANE (CAS 110-54-3)	TWA	50 ppm
(ylene (CAS 1330-20-7)	STEL	150 ppm
,	TWA	100 ppm
Canada Quehec OFLs (Ministry o	of Labor - Regulation Respect	ting the Quality of the Work Environment)
Components	Туре	Value
SOPROPANOL (CAS	STEL	1230 mg/m3
7-63-0)		<b>P</b> 2.0
		500 ppm
	TWA	983 mg/m3
		400 ppm
N-HEXANE (CAS 110-54-3)	TWA	176 mg/m3
		50 ppm
Kylene (CAS 1330-20-7)	STEL	651 mg/m3
,		150 ppm
	TWA	434 mg/m3
		100 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Components Type 980 mg/m3 ISOPROPANOL (CAS PEL 67-63-0) 400 ppm PEL 1800 mg/m3 N-HEXANE (CAS 110-54-3) 500 ppm PEL 435 mg/m3 Xylene (CAS 1330-20-7)

100 ppm

### **Biological limit values**

ACGIH Biological Expos Components	Value	Determinant	Specimen	Sampling Time
ISOPROPANOL (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
N-HEXÁNE (CAS 110-54	-3) 0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

Canada - Alberta OELs: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Can be absorbed through the skin. N-HEXANE (CAS 110-54-3)

Canada - Manitoba OELs: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

N-HEXANE (CAS 110-54-3) Can be absorbed through the skin.

**Engineering controls** 

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended. Eye/face protection

Avoid contact with clothing. Wear suitable protective clothing. Chemical resistant gloves. Skin protection

No personal respiratory protective equipment normally required. Use a positive-pressure Respiratory protection

air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not

known, or any other circumstances where air-purifying respirators may not provide adequate

protection.

Chemical resistant gloves are recommended. Hand protection

# 9. Physical & Chemical Properties

Liquid. **Appearance** Gas.

Physical state Form Aerosol.

Dark grey. Black. Color Characteristic. Odor

Odor threshold Not established Not applicable pН

Vapor pressure 352.53 mm Hg @ 38°C

~3 Vapor density

**Boiling point** 

Melting point/Freezing point

Not established

Solubility (water)

< 25 % by weight

141.8 °F (61 °C)

Specific gravity

Not available.

Relative density

0.74 - 0.76 @ 20°C

Flash point

< 1.4 °F (< -17.0 °C) Tag Closed Cup (dispensed liquid)

Flammability limits in air,

upper, % by volume

7%

Flammability limits in air,

lower, % by volume

0.6 %

Auto-ignition temperature

582.8 °F (306 °C)

VOC

95 % per US State and Federal Consumer Product Regulations (excluding compounds exempted

by US EPA)

**Evaporation rate** 

< 1 (Ethyl Ether = 1)

**Viscosity** 

< 14 cSt

Viscosity temperature

77 °F (25 °C)

**Partition coefficient** (n-octanol/water)

> 1

Other data

Decomposition

Not established

temperature

Flammability (solid, gas)

Flammable gas.

Heat of combustion

>30 kJ/g

# 10. Chemical Stability & Reactivity Information

Chemical stability

Material is stable under normal conditions.

Conditions to avoid

Heat, flames and sparks. Aerosol containers are unstable at temperatures above 50°C. Avoid

temperatures exceeding the flash point.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide,

water and other products of combustion.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

### 11. Toxicological Information

Toxicological data

Components	Species	Test Results	
1,2,4-TRIMETHYLBENZE	ENE (CAS 95-63-6)		
Acute			
Dermal			

LD50

Rabbit

> 3160 mg/kg

Rat

Inhalation

LC50

Mouse, Rat

> 2000 ppm, 12 Hours

3440 mg/kg, 24 Hours

Rat

> 2000 ppm, 48 Hours

10200 mg/m3, 4 Hours

Oral

LD50

Rat

6000 mg/kg

3280 mg/kg

Aromatic Solvent (CAS 64742-95-6)

Acute

Dermal

LD50

Rabbit

> 1900 mg/kg, 24 Hours

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Components	Species	Test Results
Inhalation		
LC50	Rat	> 5000 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		> 4.96 mg/l, 4 Hours
Oral		
LD50	Rat	4820 mg/kg
SOPROPANOL (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
		16.4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	> 10000 ppm, 6 Hours
Oral		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	5.84 g/kg
		4.7 g/kg
I-HEXANE (CAS 110-54-3)		
Acute		
Dermal		,
LD50	Rabbit	> 2000 mg/kg, 4 Hours
		> 5 ml/kg, 4 Hours
Inhalation		
LC50	Mouse	48000 ppm, 4 Hours
	Rat	> 5000 ppm, 24 Hours
		> 31.86 mg/l
		73860 ppm, 4 Hours
Oral		
LD50	Rat	24 ml/kg
		24 mg/kg
	Wistar rat	49 mg/kg
(vlong (CAS 1990 90 7)	wistar rat	פיישייי ט
(ylene (CAS 1330-20-7) Acute		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours
**		12126 mg/kg, 24 Hours
Inhalation		. J.
LC50	Mouse	3907 mg/l, 6 Hours
2000	Rat	6350 mg/l, 4 Hours
	nac	5922 ppm, 4 Hours
0		ου <i>εε</i> μριτίς τι τισοίο
Oral LD50	Mouse	5251 mg/kg
LD50		3523 mg/kg
	Rat	-
		10 ml/kg

Acute effects

Narcotic effects.

Sensitization

Not classified.

Local effects

Irritating to eyes and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

**Chronic effects** 

Prolonged inhalation may be harmful.

Carcinogenicity

**ACGIH Carcinogens** 

ISOPROPANOL (CAS 67-63-0)

A4 Not classifiable as a human carcinogen. A4 Not classifiable as a human carcinogen.

Xylene (CAS 1330-20-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

Skin corrosion/irritation

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Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation. No data available for this product.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects

Neurological effects

Suspected of damaging fertility.

Teratogenicity

Not available.

Symptoms and target organs

Skin irritation. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Synergistic materials

Not available.

**Further information** 

Symptoms may be delayed.

# 12. Ecological Information

Ecotoxicological data

		_
Components	Species	Test Results

1,2,4-TRIMETHYLBENZENE (CAS 95-63-6)

Aquatic

Fish LC50

Fathead minnow (Pimephales promelas) 7.19 - 8.28 mg/l, 96 hours

ISOPROPANOL (CAS 67-63-0)

Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

> 1400 mg/l, 96 hours

N-HEXANE (CAS 110-54-3)

Aquatic

Fish

LC50

Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Xylene (CAS 1330-20-7)

Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

7.711 - 9.591 mg/l, 96 hours

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects.

**Environmental effects** 

Toxic to aquatic organisms.

**Aquatic toxicity** 

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability Not inherently biodegradable.

Partition coefficient

 LPS® Force 842
 > 1

 2,3-DIMETHYLBUTANE
 3.42

 2-METHYLPENTANE
 3.74

 3-Methylpentane
 3.6

 ISOPROPANOL
 0.05

 NEOHEXANE
 3.82

 N-HEXANE
 3.9

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3.12 - 3.2**Xylene** 

Mobility in environmental

media

Readily absorbed into soil.

Other adverse effects

None known.

# 13. Disposal Considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

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

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

# 14. Transport Information

TDG

**UN** number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Packing group

Not applicable.

**Environmental hazards** 

No

Special precautions for user Not available.

IATA

**UN** number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

Special precautions for user Not available.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

**IMDG** 

**UN** number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1 Not applicable.

Packing group **Environmental hazards** 

Marine pollutant

No

Not available.

Special precautions for user Not available.

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### IATA; IMDG; TDG



# 15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

**WHMIS** status

Controlled

WHMIS classification

A - Compressed Gas B5 - Flammable Aerosols

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

### WHMIS labeling







## 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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico \*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).

### 16. Other Information

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Prepared by

Not available.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Disclosure Overrides Fire Fighting Measures: Hazardous combustion products Chemical Stability & Reactivity Information: Chemical stability

Toxicological Information: Neurological effects Toxicological Information: Sensitization Regulatory Information: Risk Phrases - Labeling

GHS: Classification

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Yes