Issue date: 02-25-2016 Revision date: 08-30-2017 Supersedes date: 05-28-2016 Version number: 3.0



SAFETY DATA SHEET

1. Identification

Product identifier Maximum Strength Chain Lubricant

Product Code 301824 **SDS number** 7300

Other means of identification

Old Product Code 92400; For Package Codes 301824XXXXXX **Synonyms**

Product Code

Recommended use of the chemical and restrictions on use

Recommended use Aerosol Lubricant Restrictions on use Not available.

Details of manufacturer or importer

Manufacturer

Calumet Branded Products, LLC

GPO Darling Park Towers 2 201 Sussex St. Sydney AU NSW 2000 Australia

2780 Waterfront Pkwy E. Dr., Suite 200 Indianapolis, IN 46214

1 317 328 5660

CHEMTREC: 1800 069 100 (AUS)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Flammable aerosols Category 1 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

> Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

Category 2

Label elements, including precautionary statements

Hazard symbol(s)



Flame **Exclamation Environment** mark

Signal word Danger

Hazard statement(s) Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. May cause

drowsiness or dizziness. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection. Wear protective

gloves.

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Response IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification

None known.

Supplemental information 78.25% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 78.25% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Heptane	142-82-5	10 - < 20
Propane	74-98-6	5 - < 10
Stoddard Solvent	8052-41-3	1 - < 5
Butane	106-97-8	1 - < 3
Isobutane	75-28-5	1 - < 3
Other components below reportable levels		60 - < 70

4. First-aid measures

Description of necessary first aid measures

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

CENTER 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 Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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

Personal protection for first-aid responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms

Symptoms caused by exposure

may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

Foam. Powder. Carbon dioxide (CO2).

media

Unsuitable extinguishing

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

Specific hazards arising from

the chemical

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

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters Firefighters must use standard protective equipment including flame retardant coat, helmet with

d precautions for fire face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor 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.

Hazchem code

None.

General fire hazards

Extremely flammable aerosol.

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.

6. Accidental release measures

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 vapor. 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 personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

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.

Methods and materials 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. 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. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. 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.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. 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. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	

Components	Туре	Value		
Stoddard Solvent (CAS 8052-41-3)	TWA	790 mg/m3		
Environment)	d National Exposure Standards for I	Atmospheric Contaminants in the Occupational		
Components	Туре	Value		
Butane (CAS 106-97-8)	TWA	1900 mg/m3		
(010 110 00 5)	0.751	800 ppm		
Heptane (CAS 142-82-5)	STEL	2050 mg/m3		
	T\A/A	500 ppm		
	TWA	1640 mg/m3 400 ppm		
Staddard Salvant (CAS	TWA	400 ррт 790 mg/m3		
Stoddard Solvent (CAS 8052-41-3)	IWA	790 mg/ms		
US. ACGIH Threshold Lim				
Components	Туре	Value		
Butane (CAS 106-97-8)	STEL	1000 ppm		
Heptane (CAS 142-82-5)	STEL	500 ppm		
	TWA	400 ppm		
Isobutane (CAS 75-28-5)	STEL	1000 ppm		
Stoddard Solvent (CAS 8052-41-3)	TWA	100 ppm		
UK. EH40 Workplace Exp	osure Limits (WELs)			
Components	Туре	Value		
Butane (CAS 106-97-8)	STEL	1810 mg/m3		
		750 ppm		
	TWA	1450 mg/m3		
		600 ppm		
Heptane (CAS 142-82-5)	TWA	2085 mg/m3		
		500 ppm		
Germany. DFG MAK List (Compounds in the Work)		e Investigation of Health Hazards of Chemical		
Components	Type	Value		
Butane (CAS 106-97-8)	TWA	2400 mg/m3		
,		1000 ppm		
Heptane (CAS 142-82-5)	TWA	2100 mg/m3		
,		500 ppm		
Isobutane (CAS 75-28-5)	TWA	2400 mg/m3		
,		1000 ppm		
Propane (CAS 74-98-6)	TWA	1800 mg/m3		
Tropano (ene 71 70 e)		1000 ppm		
logical limit values	No biological exposure limits noted f	No biological exposure limits noted for the ingredient(s).		
	Good general ventilation (typically 10	O air changes per hour) should be used. Ventilation rates shou		
propriate engineering	be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other			
oropriate engineering strols	be materied to conditions. If applical	engineering controls to maintain airborne levels below recommended exposure limits. If exposure		
	engineering controls to maintain airb			
	engineering controls to maintain airb limits have not been established, ma	intain airborne levels to an acceptable level. Eye wash facilitie		
trols	engineering controls to maintain airk limits have not been established, ma and emergency shower must be ava	intain airborne levels to an acceptable level. Eye wash facilitic ilable when handling this product.		
trols ividual protection measur	engineering controls to maintain airb limits have not been established, ma and emergency shower must be ava res, for example personal protective	nintain airborne levels to an acceptable level. Eye wash facilitie ilable when handling this product. e equipment (PPE)		
trols ividual protection measur Eye/face protection	engineering controls to maintain airk limits have not been established, ma and emergency shower must be ava	nintain airborne levels to an acceptable level. Eye wash facilitie ilable when handling this product. e equipment (PPE)		
trols ividual protection measur Eye/face protection Skin protection	engineering controls to maintain airk limits have not been established, ma and emergency shower must be ava res, for example personal protective Chemical respirator with organic vap	nintain airborne levels to an acceptable level. Eye wash facilitie ilable when handling this product. e equipment (PPE) for cartridge and full facepiece.		
trols ividual protection measur Eye/face protection	engineering controls to maintain airk limits have not been established, ma and emergency shower must be ava res, for example personal protective Chemical respirator with organic vap	nintain airborne levels to an acceptable level. Eye wash facilitie ilable when handling this product. e equipment (PPE)		
trols ividual protection measur Eye/face protection Skin protection	engineering controls to maintain airb limits have not been established, ma and emergency shower must be ava res, for example personal protective Chemical respirator with organic vap Wear appropriate chemical resistant	nintain airborne levels to an acceptable level. Eye wash facilities ilable when handling this product. e equipment (PPE) for cartridge and full facepiece. gloves. Suitable gloves can be recommended by the glove		

Material name: Maximum Strength Chain Lubricant

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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.

9. Physical and chemical properties

Appearance

Physical state Liquid. **Form** Aerosol. Color Not available. Odor Not available. Odor threshold Not available. рΗ Not available.

-305.68 °F (-187.6 °C) estimated Melting point/freezing point

Initial boiling point and

boiling range

-25.3 °F (-31.83 °C) estimated

-155.2 °F (-104.0 °C) Flash point

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

0.9 % estimated

(%)

Flammability limit -

upper (%)

50 % estimated

Explosive limit - lower

(%)

Not available.

Explosive limit - upper

(%)

Not available.

54.18 hPa estimated Vapor pressure

876.00 kg/m³ Density Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

420 °F (215.56 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available. Other physical and chemical parameters

Explosive properties Not explosive. Flash point class Flammable IA

Heat of combustion (NFPA 30B)

13.43 kJ/g estimated

Oxidizing properties Not oxidizing Percent volatile 0.01 % estimated

Specific gravity 0.88

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

Irritants.

11. Toxicological information

Information on possible routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to

exposure

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause

redness and pain.

Acute toxicity Narcotic effects.

-			
Product	Species	Test Results	
Maximum Strength Chain Lubr	ricant		
<u>Acute</u>			
Dermal			
LD50	Rabbit	85530 mg/kg estimated	
Inhalation			
LC50	Mouse	32000 mg/l, 2 Hours estimated	
		2068 mg/l, 1 Hours estimated	
	Rat	26919 mg/l, 15 Minutes estimated	
		562 mg/l, 4 Hours estimated	
LD50	Mouse	417 mg/l, 2 Hours estimated	
Oral			
LD50	Rat	4167 g/kg estimated	
Components	Species	Test Results	
Butane (CAS 106-97-8)			
<u>Acute</u>			
Inhalation			
LC50	Mouse	680 mg/l, 2 Hours	
	Rat	658 mg/l, 4 Hours	
Heptane (CAS 142-82-5)			
<u>Acute</u>			
Inhalation			
LC50	Rat	103 mg/l, 4 Hours	
LD50	Mouse	75 mg/l, 2 Hours	
Isobutane (CAS 75-28-5)			
<u>Acute</u>			
Inhalation			
LC50	Mouse	52 mg/l, 1 Hours	
Propane (CAS 74-98-6)			
<u>Acute</u>			
Inhalation			
LC50	Rat	> 1442.847 mg/l, 15 Minutes	

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

Skin corrosion/irritation Causes skin irritation.

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

PETROLEUM SOLVENTS (CAS 8052-41-3)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity - repeated

Due to lack of data the classification is not possible.

exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

Heptane (CAS 142-82-5)

Aquatic

Fish LC50 Mozambique tilapia (Tilapia mossambica) 375 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log

Kow)

 Butane
 2.89

 Heptane
 4.66

 Isobutane
 2.76

 Propane
 2.36

 Stoddard Solvent
 3.16 - 7.15

Mobility in soil No data available for this product.

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.

13. Disposal considerations

Disposal methodsCollect 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.

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.

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

14. Transport information

ADG

UN number 1950 **UN proper shipping name** AEROSOLS

Transport hazard class(es)
Class 2.1
Subsidiary risk -

Packing group Not applicable. Environmental hazards Not available.

Hazchem code 2YE

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

RID

UN number 1950 UN proper shipping name AEROSOLS Transport hazard class(es)

Class 2.1
Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards No.

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

IATA

UN number 1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No. ERG Code 10L

Special precautions for Read safety instructions, SDS and emergency procedures before handling.

user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number 1950 UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2.1 Subsidiary risk 5T

Packing group Not applicable.

Environmental hazards

Marine pollutant No.

EmS Not available.

Special precautions for

user

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

ADG



IATA: RID



15. Regulatory information

Safety, health and environmental regulations

National regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

Australia Medicines & Poisons Appendix E

Butane (CAS 106-97-8)

Heptane (CAS 142-82-5)

Isobutane (CAS 75-28-5)

Stoddard Solvent (CAS 8052-41-3)

Australia Medicines & Poisons Schedule 5

Butane (CAS 106-97-8)

Heptane (CAS 142-82-5)

Isobutane (CAS 75-28-5)

Stoddard Solvent (CAS 8052-41-3)

High Volume Industrial Chemicals (HVIC)

Butane (CAS 106-97-8)

Isobutane (CAS 75-28-5)

Propane (CAS 74-98-6)

For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting.

For advice, contact a Poisons information Centre (Phone eg Australia 131 - 126; New Zealand 03 - 4747 - 000) or a doctor (at once)., If swallowed, do NOT induce vomiting.

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applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

applies to all preparations in any concentration Exception may apply, see the regulation for relevance.

100000 - 999999 TONNES See the regulation for additional information.

10000 - 99999 TONNES See the regulation for additional information.

100000 - 999999 TONNES See the regulation for additional information.

International regulations International Inventories

Country(s) or region Inventory

Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS)

Canada Domestic Substances List (DSL)

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
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)	Yes
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)	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).

16. Other information

 Issue date
 02-25-2016

 Revision date
 08-30-2017

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.

Revision information Product and Company Identification: Synonyms

Composition / Information on Ingredients: Ingredients