Safety Data Sheet

LOCTITE BRAKE & PARTS 12PK

SDS No. : 488092
V001.1
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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE BRAKE & PARTS 12PK

Intended use: Lubricant

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand

Phone: +64 (9) 272-6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HSNO Classification:

2.1.1A Class 2 - Flammability, Subclass 2.1.1 - Gases, Hazard Classification A
Class 6 - Toxicity, Subclass 6.1 - Acutely toxic, Hazard Classification D
Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A
Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A
Class 6 - Toxicity, Subclass 6.9 - Target organ, Hazard Classification B
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification A

GHS Classification:

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H222 Extremely flammable aerosol.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:
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.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/… if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water.
P302+P352+P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
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 to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
n-Heptane	142-82-5	30- 60 %
Xylene - mixture of isomeres	1330-20-7	30- 60 %
Butane	106-97-8	10- < 30 %
Methanol	67-56-1	< 10 %
non hazardous ingredients~		< 10 %

SECTION 4 FIRST AID MEASURES

Ingestion: Do not induce vomiting.
Have victim rinse mouth thoroughly with water.
Seek medical advice.

Skin: Remove contaminated clothing and footwear.
Rinse with running water and soap.
If symptoms develop and persist, get medical attention.

Eyes: If irritation develops, flush eyes immediately with large amounts of water. If irritation persists, seek medical attention or advice.

Inhalation: If inhaled, immediately remove the affected person to fresh air.
If symptoms develop and persist, get medical attention.

First Aid facilities: Eye wash
Normal washroom facilities

Medical attention and special treatment: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Fine water spray
Foam, dry chemical or carbon dioxide.

Decomposition products in case of fire:: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.
Carbon monoxide.
Carbon dioxide.

Particular danger in case of fire:: WARNING FLAMMABLE!
Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point.
Exposure to temperatures above 49ºC (120°F) may cause container to burst.
Cool aerosol containers with jet of water. Containers may explode.

Special protective equipment for fire-fighters: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Wear full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from sources of ignition.
Wear an approved respirator, impervious gloves and chemical splash goggles.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Absorb spill with inert material. Shovel material into appropriate container for disposal.
Dispose of according to Federal, State and local governmental regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Use only in well-ventilated areas.
Wear suitable protective clothing, safety glasses and gloves.
Keep away from heat, spark and flame.

Conditions for safe storage: Store in a cool, dry, well-ventilated area.
Keep away from heat and direct sunlight.
Do not store or use near heat, spark, open flame or other sources of ignition.
Store below 120°F (50°C).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
HEPTANE (N-HEPTANE) 142-82-5		400	1,640	-	-	-
HEPTANE (N-HEPTANE)		-	-	-	500	2,050
XYLENE (O-, M-, P-ISOMERS) 1330-20-7		50	217	-	-	-
BUTANE 106-97-8		800	1,900	-	-	-
METHYL ALCOHOL 67-56-1		200	262	-	-	-
METHYL ALCOHOL		-	-	-	250	328

Engineering controls: Use only in well ventilated areas.
Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

Eye protection: Avoid contact with eyes.
Wear chemical goggles or a full face shield.

Skin protection: Wear suitable protective clothing.
Wear impervious (neoprene) gloves, impervious apron.

Respiratory protection: Do not inhale aerosol
If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colourless
liquid
Odor: mild
Solubility in water: Insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to avoid: Stable under normal conditions of storage and use.

Incompatible materials: Incompatible with oxidising agents.
Nitric acid.
Chlorine.

Hazardous decomposition products: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

carbon monoxide
carbon dioxide

Hazardous polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: Harmful if swallowed.
Not expected under normal conditions of use.

Skin: Harmful if absorbed through the skin.
Prolonged or repeated contact with this product may dry and/or defat the skin.
This product may cause irritation to the skin.

Eyes: Contact may result in moderate irritation.

Inhalation: Harmful by inhalation.
Inhalation of mist or spray may cause irritation of the respiratory tract and nasal passages.
Vapours may cause drowsiness and dizziness.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Heptane 142-82-5	LD50 LC50 LD50	> 5,000 mg/kg > 29.29 mg/l > 2,000 mg/kg	oral inhalation dermal	 4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
Xylene - mixture of isomeres 1330-20-7	LD50 LC50 LD50	3,523 mg/kg 11 mg/l 1,700 mg/kg	oral inhalation dermal	 4 h	rat rat rabbit	EU Method B.1 (Acute Toxicity (Oral)) not specified not specified
Butane 106-97-8	LC50	274200 ppm	inhalation	4 h	rat	not specified
Methanol 67-56-1	Acute toxicity estimate (ATE)	300 mg/kg	oral			Expert judgement

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Heptane 142-82-5	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	not specified
Methanol 67-56-1	not irritating	20 h	rabbit	BASF Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Heptane 142-82-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Xylene - mixture of isomeres 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
n-Heptane 142-82-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Xylene - mixture of isomeres 1330-20-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Methanol 67-56-1	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
n-Heptane 142-82-5	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without not applicable		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Xylene - mixture of isomeres 1330-20-7	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test sister chromatid exchange assay in mammalian cells	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) EU Method B.10 (Mutagenicity) EU Method B.19 (Sister Chromatid Exchange Assay In Vitro)
Xylene - mixture of isomeres 1330-20-7	negative	intraperitoneal		rat	OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Butane 106-97-8	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butane 106-97-8	negative			Drosophila melanogaster	not specified
Methanol 67-56-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) Chromosome Aberration Test OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Methanol 67-56-1	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
n-Heptane 142-82-5		inhalation: vapour	16 weeks12 hours/day, 7 days/week	rat	
Xylene - mixture of isomeres 1330-20-7	NOAEL=150 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Xylene - mixture of isomeres 1330-20-7	LOAEL=150 mg/kg	oral: gavage	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Butane 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Methanol 67-56-1	NOAEL=6.63 mg/l	inhalation	4 weeks6 h/d, 5 d/w	rat	not specified

SECTION 12. ECOLOGICAL INFORMATION

General ecological information: Very toxic to aquatic organisms., May cause long-term adverse effects in the aquatic environment., Do not empty into drains / surface water / ground water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
n-Heptane 142-82-5	LC50	> 220 - 270 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Heptane 142-82-5	EC50	1.5 mg/l	Daphnia	48 h	Daphnia magna	other guideline:
Xylene - mixture of isomeres 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomeres 1330-20-7	EC50	3.1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomeres 1330-20-7	EC50	2.2 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Xylene - mixture of isomeres 1330-20-7	EC 50	> 1 - 10 mg/l	Bacteria			not specified
Butane 106-97-8	LC50	27.98 mg/l	Fish	96 h		not specified
Butane 106-97-8	EC50	14.22 mg/l	Daphnia	48 h		not specified
Butane 106-97-8	EC50	7.71 mg/l	Algae	96 h		not specified
Methanol 67-56-1	LC50	15,400 mg/l	Fish	96 h	Lepomis macrochirus	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
Methanol 67-56-1	NOEC	7,900 mg/l	Fish	200 h	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
Methanol 67-56-1	EC50	18,260 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methanol 67-56-1	EC50	22,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methanol 67-56-1	IC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
n-Heptane 142-82-5	readily biodegradable	aerobic	70 %	other guideline:
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %	OECD 301 A - F
Methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

n-Heptane 142-82-5		552		calculation		QSAR (Quantitative Structure Activity Relationship)
n-Heptane 142-82-5	4.66					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Xylene - mixture of isomeres 1330-20-7		8.5	7 d	Oncorhynchus mykiss		not specified
Xylene - mixture of isomeres 1330-20-7	3.12					not specified
Methanol 67-56-1	-0.77					other guideline:

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal of product: Dispose of in accordance with local and national regulations.
Do not puncture or incinerate pressurized containers.

SECTION 14. TRANSPORT INFORMATION

Land Transport:

UN no.: 1950
Proper shipping name: AEROSOLS
Class or division: 2.1
Packing group:

Marine transport IMDG:

UN no.: 1950
Proper shipping name: AEROSOLS (n-Heptane)
Class or division: 2.1
Packing group:
EmS: F-D ,S-U
Seawater pollutant: Marine pollutant

Air transport IATA:

UN no.: 1950
Proper shipping name: Aerosols, flammable
Class or division: 2.1
Packing group:
Packing instructions (passenger) 203
Packing instructions (cargo) 203

SECTION 15. REGULATORY INFORMATION

HSNO Approval Number: HSR002515

NZIoC: Compliant for NZIOC

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms:

STEL - Short term exposure limit
TWA - Time weighted average
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue:

Reviewed MSDS. Reissued with new date. involved chapters: 1-16

Disclaimer:

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