

Safety Data Sheet

Issued: 20-Feb-18
Revised: 30-Mar-18

Product: LS Bell Hammer Grease Spray 420ml

1. Information on Company, Chemical Substances and Mixtures

Product: LS Bell Hammer Grease Spray 420ml
 Company: SUZUKI KIKOH CO, LTD.
 Address: 316-3, Tobihidai, Matsudo-shi, Chiba, 270—2214, Japan
 Division in charge:
 Emergency Contact Number: TEL 047-385-5311 FAX 047-385-5313

2. Summary on Hazard and Toxicity

GHS classification and label elements of the product

GHS classification

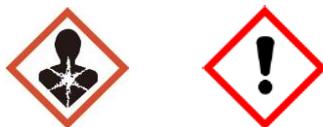
HEALTH HAZARDS

Skin corrosion/irritation: Category 2
 Serious eye damage/eye irritation: Category 2
 Germ cell mutagenicity: Category 2
 Carcinogenicity: Category 1 A
 Reproductive toxicity: Category 2
 Specific target organ toxicity – Single exposure: Category 2
 Specific target organ toxicity – Single exposure: Category 3 (airway irritation)
 Specific target organ toxicity – Single exposure: Category 3 (anesthetic action)
 Specific target organ toxicity – Repeated exposure: Category 1
 Specific target organ toxicity – Repeated exposure: Category 2

ENVIRONMENTAL HAZARDS

Hazardous to the aquatic environment (acute): Category 2

GHS label elements



Signal word

Danger

Hazard statement

Extremely flammable/combustible aerosol
 Pressurized container: may burst if heated
 Causes skin irritation
 Causes serious eye irritation
 Suspected of causing genetic defects
 May cause cancer
 Suspected of damaging fertility or the unborn child
 May cause damage to organs
 May cause respiratory irritation
 May cause drowsiness or dizziness
 Causes damage to organs through prolonged or repeated exposure
 Toxic to aquatic life

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Physical and chemical hazards Flammable gas under pressure is included, which may explode from heat, shock, friction or contamination.
 Extremely flammable liquid, which may explode if the vapor is accumulated.
 Extremely flammable gas is contained, which may explode if the vapor is accumulated.

3. Composition/information on ingredients

Distinction between chemical substance and mixture: mixture
 ingredient and contained amount

ingredient/chemical name	contained amount (%)	CAS No.	CSCL regulation №
Mineral oil	10 to 20	72623-86-0	-
Isohexane	25 to 35	101316-67-0	(2)-6
n-Hexane	1.2	110-54-3	(2)-6
n-Butane	20 to 30	106-97-8	(2)-4
Propane	10 to 20	74-98-6	(2)-3
Isobutane	1 to 10	75-28-5	(2)-4

Note: These values are not product's specification values.

For ingredients subject to Industrial Safety and Health Act, and Pollutant Release and Transfer Register (PRTR), refer to "15. THE APPLICABLE LEGISTRATION."

4. First-aid Measures

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a doctor if you feel unwell.

IF ON SKIN: Wipe the attachment quickly with a clean and dry cloth.
 Do not use solvent and thinner. Wash with plenty of water and soap.
 If skin irritation occurs: Get medical advice/attention.
 In case of appearance changes, irritation or pain,
 call a doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Rinse so that water spread into all parts of the eye.
 If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Do not swallow vomit.
 Do not vomit without instructions from a doctor.
 Keep victim calm and immediately get he/she medical advise..

First-aid protection: First-aiders wear protective equipment such as rubber gloves or sealed goggle.
 Ensure proper ventilation.

Special precautions for doctors: Need special treatment.

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5. Fire-fighting Measures

Extinguishing agent	Suitable extinguishing agent In case of fire, use foam, powder and carbon dioxide to extinguish.
Precautions for fire-fighters	Particular extinguishing methods Cool a closed container under high temperature with water. Stay upwind when fighting fire. Isolate the flammables quickly. For an aerosol product which may explode under high temperature, fight fire from a reasonable distance.
Protection of fire-fighters	Wear suitable protective equipment such as heat-resistance clothing.

6. Accidental Release Measures

Personal precautions	Wear protective equipment (gloves, face protection, clothing and goggles, etc.) at work.
Protective equipment and emergency procedures	Make the surround a restricted area from unauthorized persons to prevent second accident.
Environmental precautions:	Be careful not to affect environment by discharge into rivers.
Methods and materials for containment and cleaning up:	Collect spillage in a closable container and move it to a safe place. Treat attachments and waste in accordance with relative legislations.
Prevention of second accident	Prepare a suitable extinguisher in case of ignition. Remove quickly the surround ignition sources, high temperature body and flammables.

7. Handling and Storage

Handling	
Engineering Measures:	(Exposure control of handlers) Avoid breathing fume/gas/mist/vapors/spray.
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection Wear personal protective equipment adapted to the situation.
Incompatibilities	Proper storage conditions
Conditions for safe storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Conditions to avoid Protect from sunlight. Do not storage in a place where temperature exceeds 40 °C.

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8. Exposure Controls/Personal Protection

•Control parameters

Control concentration

ingredient	Concentration limit	
	Working Environment Assessment Standard (2004)	
n-Hexane	<=40ppm	

Concentration limit

ingredient	Concentration limit	
	Japan Society for Occupational Health	ACGIH
n-Butane	500ppm(1988);1200mg/m3	STEL:1,000ppm(Central nervous system depression)(2012)
n-Hexane	40ppm(1985);140mg/m3	TWA:50ppm(central nervous system damage;prepheral nerve depression; irritating property) (1996)
Mineral oil	(1977);3mg/m3(for mineral oil mist)	TWA: reduce to the extent possible(L) (upper airway irritation)
Propane	Not specified	Least oxygen concentration(D,EX) asphyxiantivity
Isobutane	500ppm(1988);1200mg/m3	STEL:1,000ppm(Central nervous system depression)(2012)

Notes(symptoms, ingestion pathway, etc.)

n – Hexane Dermal inhalation

Exposure control

Equipment measures

Handle in a properly-ventilated place.
Install exhaust/ventilation equipment

Personal protective equipment

Respiratory Wear respiratory protection.
Hand protection Wear protective gloves.
Eye protection Wear eye protection/face protection.
Skin/body protection Wear protective clothing.

Hygiene Measures

Wash contaminated parts thoroughly after handling.
Do not eat, drink or smoke when using this product.
Take off immediately all contaminated clothing and wash it before reuse.
Wash thoroughly after handling.

9. Physical and Chemical Properties

Basic information on Physical and Chemical Properties

Physical state

Form	liquid
Color	light yellow
Odor	solvent odor
Specific weight/density	0.62±0.02g/cm ³

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10. Stability and Reactivity

Chemical stability:

Containers of aerosol products may explode at temperature exceeding 40°C.

Possibility of hazardous reactions:

May react in contact with oxidizing substances.

Conditions to avoid:

Keep away from heat/sparks/open flames/hot surfaces.

Incompatible materials:

Oxidizing

Hazardous decomposition products: Burning causes hazardous gases such as carbon monoxide, nitrogen oxide and other low molecular monomers, etc.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

acute toxicity (oral) (mineral oil) rat LD50>5000mg/kg (IUCILD,2011)

acute toxicity (dermal) (mineral oil) rat LD50>5000mg/kg (IUCILD,2011)

acute toxicity (inhalation) (mineral oil) mist:rat LC50=2.18 mg/L (IUCLID,2000)
isobutane gas : mouse LC50=11000 ppm/4hr (ACGIH, 2004)

Local effects

skin corrosion/irritation (n-hexane) rabbit/human mild irritating property (DFGOTvol.14,2000)

serious eye damage/irritation (n-hexane) rabbit mild irritating property (DFGOTvol.14,2000)
(mineral oil) rabbit mild irritation (IUCILD,2000)

germ cell mutagenicity (mineral oil) cat.2;(IUCILD,2000)

carcinogenicity (mineral oil) IARC (1987) unrefined or mild-treatment oil Gr.1
(mineral oil) IARC-Gr.1: Suspected to have carcinogenicity to human
(mineral oil) ACGIH-A2(2009): Suspected to have carcinogenicity to human
(isohexane) EU-carcinogenicity Category 1B ; May have carcinogenicity to human
(mineral oil) EU-carcinogenicity Category 1B ; May have carcinogenicity to human

reproductive toxicity (n-hexane) cat.2;rat:ATSDR,1999

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Delayed and immediate effects and also chronic effects from short and long term exposure

Specific target organ toxicity

specific target organ toxicity - single exposure	[Category2] mineral oil lung isobutane heart [Category3 (airway irritation)] (n-hexane) airway irritation [Category3 (anesthetic action)] (n-hexane) anesthetic action (n-butane) anesthetic action (propane) anesthetic action (isobutane) anesthetic action
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specific target organ toxicity - repeated exposure	[Category1] mineral oil lung, skin (n-hexane) Nervous system
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aspiration hazard	[Category1] (mineral oil) cat.1 ; ACGIH,2001
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12. Ecological Information

Ecotoxicity

Aquatic toxicity toxic to aquatic life

aquatic toxicity (acute) ingredient data

(n-hexane)	Crustacea(Daphnia magna)	LC50=3.88mg/L/48hr(EHC122,1991)
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Water solubility

(n-butane)	0.0061 g/100 ml (20 C) (ICSC, 2003)
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(n-hexane)	0.0013 g/100 ml (20 C) (ICSC, 2000)
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(propane)	0.007 g/100 ml (20 C) (ICSC, 2003)
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(isobutane)	insoluble (ICSC, 1998)
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Persistence and degradability	(n-hexane)	Solubility in BOD: 100% (safety-inspection data of existing chemical substances)
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Bioaccumulation

(n-butane)	log Pow=2.89 (ICSC, 2003)
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(n-hexane)	log Pow=3.9 (ICSC, 2000)
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(propane)	log Pow=2.36 (ICSC, 2003)
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(isobutane)	log Pow=2.8 (ICSC, 1998)
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Other information

Be careful with handling of leakage and disposals so as not to affect environment.

Manage the product and its wash water so as not to discharge them directly into the ground, rivers or drainage way.

13. Disposal Considerations

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Disposal methods

Avoid release to the environment.
 Dispose contents/container in accordance with regional/national regulations.
 Do not apply incineration disposal to aerosol products.
 For aerosol products, use the content all up and continue to spray outdoors where is no fire sources until no spraying sound is heard to outgas completely before disposal.
 You must not dispose a container with the content remains.
 Be careful with fire source and inhalation of mist when outgassing.

14. Transport Information

UN Number, UN Classification

Number	1950
Product name (UN Proper Shipping Name)	aerosol
UN classification (Transport hazard class)	2.1
Index number	126

15. Regulatory Information

Safety, health and environmental regulations specific for the product in question
 Not applicable to Poisonous and Deleterious Substances Control Act

Industrial Safety and Health Act
 Organic matter regulations, Third-class Organic Solvent
 mineral oil

Dangerous and Toxic Substances Subject to Indicate or Notify Their Names, etc.
 Dangerous and Toxic Substances Subject to Notify Their Names, etc.
 mineral oil; n-butane; isobutane; n-hexane

Dangerous and Toxic Substances Subject to Notify Their Names, etc.
 mineral oil; n-butane; isobutane; n-hexane

Pollutant Release and Transfer Register (PRTR) Act
 Class I Designated Chemical Substance
 n-hexane

Fire Service Act
 Categorized as Group 4 hazardous substance, Type 1 petroleum

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High Pressure Gas Safety Act

This aerosol product is under 1L in volume in its container and under 0.8MPa at 35°C corresponding to the Article 4 (iii) of Notices Relative to Enforcement Order of High Pressure Gas Safety Act and excluded from application of High Pressure Gas Safety Act.

CSCL

Chemical substances of priority assessment
n-hexane

the Air Pollution Control Law

Harmful air pollutants
n-hexane

Ship Safety Act

Gases, flammable gas, classification 2, Category 2.1

Civil Aeronautics Act

Gas under pressure, flammable gas, classification 2, Category 2.1

the Water Pollution Prevention Law

Living Environment Items for Wastewater Standards applied to the specified operating equipment with more than 50m³ wastewater in average per a day.
mineral oil

16. Other Information

Reference

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2017 TLVs and BEIs. (ACGIH)
<http://monographs.iarc.fr/ENG/Classification/index.php>
JIS Z 7253 (2012)
JIS Z 7252 (2014)
2016 Recommendations on Concentration limit (Japan Society for Occupational Health)
Supplier's data/information

Limitation on liability

The contents described herein is based on material and information data available at present and subject to revision by new findings. Furthermore, as the precautions are targeted to the normal use, reasonable safety measures are needed for other special uses.