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Version 1.0

Safety Data Sheet

1. Product and Company information

Product Name:	LS Bell Hammer Spray 420 ml
Recommended uses :	For industrial use
Restrictions on use:	For uses other than the recommended purpose, seek professional advice.
Company Name:	SUZUKI KIKOH Co., Ltd.
Address:	316-3, Matsuhidai, Matsudo, Chiba,270-2214
Department:	Quality Assurance Department
Phone:	047-385-5311
Fax:	047-385-5313

2. Summary of potential hazards

GHS Category

Physical and Chemical Hazards:	Aerosol – Category 1
Specific Target Organ Toxicity (Single Exposure)	• Category 2 (Cardiovascular system) • Category 3 (Narcotic effects)
Specific Target Organ Toxicity (Repeated Exposure):	Category 1 (Central Nervous System)
Environmental Hazards	• Hazardous to the aquatic environment, long-term (acute) – Category 2 • Hazardous to the aquatic environment, long-term (chronic) – Category 3

GHS Label Elements:

Pictogram (JP):

Signal words: Danger

Hazard(s) Identification (GHS JP)

- Extremely flammable aerosol (H222)
- Pressurized container: may burst if heated (H229)
- May cause drowsiness or dizziness (H336)
- Causes damage to organs (Cardiovascular system) (H371)
- Causes damage to organs through prolonged or repeated exposure (Central Nervous System) (H372)
- Toxic to aquatic life (H401)
- May cause long-lasting harmful effects to aquatic life (H412)

Precautionary Statements(GHS JP)

【Safety Measures】
- Do not spray on an open flame or other ignition source. (P211)
- Do not pierce or burn, even after use. (P251)
- Do not breathe dust, fume, gas, mist, vapors, or spray. (P260)
- Wash hands, forearms, and face thoroughly after handling. (P264)
- Do not eat, drink, or smoke when using this product. (P270)
- Use only outdoors or in a well-ventilated area. (P271)
- Avoid release to the environment. (P273)

【First Aid Measures】
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)
- IF exposed or concerned: Get medical advice/attention. (P308+P311)
- Contact the doctor if you feel unwell. (P312)
- Get medical advice/attention if you feel unwell. (P314)

Other hazards: Protect from sunlight. Do not expose to temperatures exceeding 40 °C

Additional hazards during processing: Under normal conditions of use, no significant hazards are expected

3. Composition and ingredient information

Product Type: Mixture

Name	Concentration (%)	Official Gazette Reference No.		CAS No.
		CSCL No.	ISHL No.	
Mineral oil	45 - 50	-	-	-
Butane	25 - 30	(2)-4	Existing Chemical Substance	106-97-8
Propane	20 - 25	(2)-3	Existing Chemical Substance	74-98-6
Isobutane	10 - 15	(2)-4	Existing Chemical Substance	75-28-5
Chlorinated paraffins (C14-17)	0.1 - 1	-	-	85535-85-9

Note: These values are not product specifications. Concentrations of components considered trade secrets are indicated as ranges.
For components subject to the Industrial Safety and Health Act or the Pollutant Release and Transfer Register (PRTR) Law, please refer to Section 15 “Regulatory Information.”

4. First-aid treatment

General First-aid Measures:	If exposed or concerned, obtain medical advice or attention
If inhaled:	Move to fresh air, rest in a comfortable position. If feeling unwell, seek medical attention.
If in contact with skin:	Wipe off with cloth or paper, then wash the affected area with water and soap.
If in eyes:	Rinse thoroughly with water for several minutes. Remove contact lenses if easily removable. Continue washing.
If swallowed:	Do not induce vomiting. If mouth is contaminated, rinse thoroughly with water. Seek medical attention if feeling unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/Effects:	May cause drowsiness or dizziness
After inhalation:	No specific effects under normal conditions
After skin contact:	No specific effects under normal conditions
After eye contact:	No specific effects under normal conditions
After ingestion:	No specific effects under normal conditions

Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment:	Treat symptomatically

5. Firefighting measures

Suitable extinguishing media:	Water spray, dry powder extinguishing agent, foam extinguishing agent, carbon dioxide. In case of fire, use foam, powder, or carbon dioxide
Unsuitable extinguishing media:	Do not use a strong water jet
Fire hazard:	Extremely flammable aerosol
Explosion hazard:	High-pressure container: May rupture when heated.
Hazardous decomposition products in case of fire:	May release toxic smoke

Firefighting methods :	• Carry out firefighting from a safe distance and protected location
	• Do not enter the fire site without using appropriate protective equipment, including respiratory protection
	• Cool sealed containers exposed to high temperatures with water
	• Perform firefighting from upwind
	• Quickly remove flammable materials from the surroundings
	• For aerosol products, maintain sufficient distance during firefighting due to risk of rupture at high temperature
Protective equipment during firefighting :	• Work wearing appropriate protective equipment, self-contained breathing apparatus
	• Full protective clothing
	• Self-Contained Breathing Apparatus
	• Wear appropriate protective equipment (e.g., heat-resistant clothing)

6. Accidental release measures

Precautions for humans, protective equipment and emergency measures

General measures	• Stop the leak if it can be done safely
	• Report to the authorities if this product enters sewers or public water
	• Absorb the released material to prevent property damage
	• Wear appropriate protective equipment (gloves, protective mask, apron, goggles, etc.) during work
	• Restrict access to the surrounding area and prevent unauthorized persons from approaching to avoid secondary disasters
Non-emergency responders:	
Protective Equipment	Wear the recommended personal protective equipment
First-aid Measures	• Ventilate the area of leakage
	• Keep away from open flames and sparks; no smoking
	• Do not inhale dust, fumes, gas, mist, vapors, or spray
Emergency Responders:	
Protective Equipment	• Wear appropriate protective equipment
	• For details, refer to Section 8 "Exposure Controls / Personal Protection"
First-aid Measures	• Evacuate unnecessary personnel
	• Stop the leak if it can be done safely
Environmental Precautions:	
Environmental Precautions	• Avoid release to the environment
	• Take care to prevent environmental impact, such as discharge into rivers

Containment and Cleanup Methods and Equipment:

Containment Method	• Absorb all spilled product with sand or soil
	• Collect spillage.
	• Recover spilled material using an absorbent and prevent it from entering drains or waterways
	• If possible, stop the leak without risk
	• Collect the spilled material in a sealable container and move to a safe location
	• Treat residues and waste according to applicable regulations
Cleanup Method:	Recover the product mechanically
Secondary Disaster Prevention Measures:	• Prepare appropriate fire extinguishers in case of ignition
	• Quickly remove nearby ignition sources, hot objects, and combustible materials
Other Information:	Dispose of substances or solid residues at an authorized facility

7.Handling and Storage

Handling

Technical Measures: No data

Safe Handling Precautions
- Wear personal protective equipment
- Keep away from ignition sources such as heat, sparks, open flames, and hot surfaces - no smoking
- Do not spray on open flames or other ignition sources
- Do not pierce or burn, even after use
- Do not inhale dust, fumes, gas, mist, vapors, or spray
- Use only outdoors or in a well-ventilated area

Avoid Contact: No data

Hygiene Measures:
- Do not eat, drink, or smoke when using this product
- Wash hands after handling the product

Additional Hazards During Handling: Under normal conditions of use, no significant additional hazards are expected

Storage

Safe Storage Conditions
- Keep out of direct sunlight
- Store in a well-ventilated place
- Do not expose to temperatures above 40 ℃

Safe Container/Packaging Materials:No data

Technical Measures (Storage): Store in a cool, well-ventilated place away from heat

Container/Packaging Materials: Always store the product in a container made of the same material as the original container

8. Exposure prevention and protection measures

Isobutane (75-28-5)	
Japan - Occupational Exposure Limit (Japan Society for Occupational Health)	
Permissible Concentration	1200mg/m³
	500ppm
Reference	According to JCDB survey
Butane (106-97-8)	
Japan - Occupational Exposure Limit (Japan Society for Occupational Health)	
Permissible Concentration	1200mg/m³
	500ppm
Reference	Occupational Exposure Limits (2023) - Journal of Occupational Health, Vol. 65

Equipment Measures: Ensure sufficient ventilation in the workplace

Protective Equipment

General Personal Protection: Wear the recommended personal protective equipment

Respiratory Protection: When ventilation is insufficient, wear an appropriate respirator

Hand Protection: Protective gloves

Eye Protection: Safety glasses

Skin and Body Protection: Wear appropriate protective clothing

Environmental Exposure Control and Monitoring: Avoid release to the environment

9. Physical and chemical properties

Physical State:	Liquid
Color:	White
Odor:	Characteristic odor
pH:	No data
Melting Point:	No data
Freezing Point:	No data
Boiling Point:	-42℃
Flash Point:	-104℃
Auto-ignition Temperature:	365℃
Decomposition Temperature:	No data
Flammability:	Extremely flammable aerosol
Vapor Pressure:	No data
Relative Density:	No data
Density:	0.67-0.71 g/cm^3
Relative Gas Density:	No data
Solubility:	No data
n-Octanol/Water Partition Coefficient (Log Pow):	No data
Explosion Characteristics:	High-pressure container: may burst when heated
Explosion Limits:	1.8-9.5 vol %
Kinematic Viscosity:	No data
Particle Characteristics:	No data

10. Stability and reactivity

Reactivity	・Extremely flammable aerosol ・High-pressure container: may burst when heated
Chemical Stability:	Stable under normal conditions. Aerosol products may burst if temperature exceeds 40℃
Possibility of Hazardous Reactions:	No hazardous reactions known under normal use. May react with oxidizing substances
Conditions to Avoid:	Avoid contact with high-temperature surfaces. Heat. Eliminate all sources of ignition such as flames or sparks. Avoid heating, sparks, open flames, and other ignition sources
Incompatible Materials:	No data
Hazardous Decomposition Products:	Under normal use and storage conditions, hazardous decomposition products are not generated. Combustion may produce harmful gases such as carbon monoxide, nitrogen oxides, and other low-molecular-weight monomers

11. Hazard information

Acute Toxicity (Oral): No data

Acute Toxicity (Dermal): No data

Acute Toxicity (Inhalation): No data

Propane	
LC50 Inhalation - Rat [ppm]	38890 ppm
Isobutane	
LC50 Inhalation - Rat [ppm]	224556 ppm
Butane	
LC50 Inhalation - Rat [ppm]	276798.8 ppm
Chlorinated paraffins (C14-17)	
LD50 oral	15000 mg/kg

Skin Corrosion/Irritation: No data

Serious Eye Damage/Eye Irritation: No data

Respiratory Sensitization: No data

Skin Sensitization: No data

Germ Cell Mutagenicity: No data

Carcinogenicity: No data

Reproductive Toxicity: No data

Specific target organ toxicity (single exposure): Organ damage (cardiovascular system)

May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure): Organ damage after prolonged or repeated exposure (central nervous system)

Aspiration hazard: No data

12. Ecological Information

Ecotoxicity - General: May cause long-term adverse effects to aquatic life

Hazardous to the aquatic environment - Acute (short-term): Toxic to aquatic life

Chronic Aquatic Toxicity: May cause long-term adverse effects to aquatic life

Chlorinated paraffins (C14-17)	
EC50 - Crustacea [1]	0.0059 mg/l
NOEC - Crustacea (chronic)	0.0087 mg/l

Persistence and Degradability

Suzuki Kikoh LS Bell Hammer Spray 420ml	
Persistence and Degradability	Not readily biodegradable
Propane	
Persistence and Degradability	Not readily biodegradable
Isobutane	
Persistence and Degradability	Not readily biodegradable
Butane	
Persistence and Degradability	Not readily biodegradable
Mineral oil	
Persistence and Degradability	Not readily biodegradable
Chlorinated paraffins (C14-17)	
Persistence and Degradability	Not readily biodegradable

Bioaccumulation Potential

Suzuki Kikoh LS Bell Hammer Spray 420ml	
Bioaccumulation Potential	No data available

Soil Mobility

Suzuki Kikoh LS Bell Hammer Spray 420ml	
Soil Mobility	No data available

Ozone Layer Hazard: No data

Other Adverse Effects: Take care during handling, leakage, or disposal to prevent environmental impact. In particular, ensure that the product or wash water does not flow directly onto the ground, into rivers, or into drains

13. Disposal considerations

Recommended Product/Packaging Disposal:	Dispose of in accordance with regulations of the competent authority
Disposal Methods	・Dispose of contents/container in accordance with separate collection by authorized disposal contractors ・Do not incinerate aerosol products ・For aerosol products, fully use the contents, press the button outdoors away from fire until the spray stops, and completely release the gas before disposal ・Never dispose of containers with remaining contents ・Take care regarding fire and inhalation of mist when releasing gas
Local Disposal Regulations:	Dispose of in accordance with regulations of the competent authority
Recommended Sewage Treatment:	Dispose of in accordance with regulations of the competent authority
Additional Information:	Do not reuse empty containers

14. Transport precautions

International Regulations

United Nations Recommendations (UN RTDG)

UN Number (UN RTDG):	1950
Proper Shipping Name (UN RTDG):	Aerosol
Packing Group (UN RTDG):	Not Applicable
Transport Hazard Class (UN RTDG):	2.1
Hazard Label (UN RTDG):	2.1
Class (UN RTDG):	2
Division (UN RTDG):	2.1
Limited Quantity (UN RTDG):	See SP 277
Excepted Quantity (UN RTDG):	E0
Packaging Instructions (UN RTDG):	P207, LP200

MARPOL 73/78 Annex II and IBC Code for Bulk Transported Liquid Substances:

・Not applicable

Domestic Regulations:

Maritime Regulatory Information:	Comply with the provisions of the Ship Safety Act
Aviation Regulatory Information:	Comply with the provisions of the Aviation Act
Emergency Response Guide Number:	126
Other Information:	No additional information

15. Applicable Laws and Regulations

Domestic Laws

Chemical Substances Control Law (CSCL): : Priority Assessment Chemical Substance (Article 2, Paragraph 5)

Industrial Safety and Health Act (ISHA):

【After amendment from April 1, 2025】Substances requiring labeling of hazards and harmfulness (Article 57, Paragraph 1; Enforcement Order Article 18, Items 2-3; ISHA Rule Annex 2)

【After amendment from April 1, 2026】
・Substances requiring labeling of hazards and harmfulness (Article 57, Paragraph 1; Enforcement Order Article 18, Items 2-3; ISHA Rule Annex 2)
・Substances requiring labeling of hazards and harmfulness (Article 57, Paragraph 1; Enforcement Order Article 18, Items 1-2 Annex 9)
・Flammable gases (Enforcement Order Annex 1, Item 5)
・Substances requiring notification of hazards and harmfulness (Article 57-2, Paragraph 1; Enforcement Order Article 18-2, Items 1-2 Annex 9)
・Butane (Government Ordinance No.: 482) (20-30%)
・Mineral oil (Government Ordinance No.: 168) (40-50%)

【After amendment from April 1, 2025】Substances requiring notification of hazards and harmfulness (Article 57-2, Paragraph 1; Enforcement Order Article 18-2, Items 2-3; ISHA Rule Annex 2)
・Butane (20-30%)

【After amendment from April 1, 2026】Substances requiring notification of hazards and harmfulness (Article 57-2, Paragraph 1; Enforcement Order Article 18-2, Items 2-3; ISHA Rule Annex 2)
・Butane (20-30%)
・Propane (10-20%)

Fire Service Act:	Class 4 Flammable Liquids, Petroleum Class 4, “Keep away from fire,” Hazard Class III
Air Pollution Control Act:	Volatile Organic Compounds (Article 2, Paragraph 4) (Notification from Ministry of Environment to Prefectures)
Ship Safety Act:	High-pressure gases, flammable high-pressure gases (Hazard Regulation Articles 2, 3; Notification Annex 1)
Aviation Act:	High-pressure gases, flammable high-pressure gases (Enforcement Rules Article 194; Notification Annex 1)
High Pressure Gas Safety Act:	This aerosol product has a container volume ≤1 L, and at 35° C the pressure ≦0.8 MPa; therefore, according to Article 4, Paragraph 3 of the relevant notification under the Enforcement Order, it is exempt from the High-Pressure Gas Safety Act.

16. Other Information

References:

1. Globally Harmonized System of Classification and Labelling of Chemicals, UN
2. Recommendations on the Transport of Dangerous Goods, UN
3. IMDG Code - International Maritime Dangerous Goods
4. IATA Dangerous Goods Regulations
5. 2020 Emergency Response Guidebook (US DOT)
6. TLVs and BEIs (ACGIH)
7. JIS Z 7252 2019
8. JIS Z 7253 2019
9. Recommended Occupational Exposure Limits (Japan Society for Occupational Health)
10. Ministry of Health, Labour and Welfare Notification No. 0111 (Jan 11, 2022)
11. Supplier's Data/Information
12. OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012)

This information has been prepared based on the materials and data available at the present time and may be revised as new knowledge becomes available. The precautions are intended for normal handling; in the case of special handling, please ensure that sufficient safety measures are implemented before use.

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