Safety data sheet
according to 1907/2006/EC, Article 31

No. 4113-EuEN | Version number 2101 | Revision: 27.05.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

. **1.1 Product identifier**

. Trade name: Morita Multi Spray

. Article number: 791-4113

. **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

. Application of the substance / the mixture: Lubricant

. **1.3 Details of the supplier of the safety data sheet**

. Manufacturer/Supplier:

Manufacturer	Supplier
J. MORITA MFG. CORP	J. MORITA EUROPE GmbH
680 Higashihama Minami-cho,	Justus-von-Liebig-Straße 27b 63128
Fushimi-ku, Kyoto 612-8533, Japan	Dietzenbach Germany
Tel.: +81. (0)75.611 2141	Tel.: +49 6074 836 0
Fax: +81. (0)75.622 4595	Fax: +49 6074 836 299
e-mail: customer@jmorita-mfg.co.jp	e-mail: info@morita.de
homepage: https://www.morita.com/jmmc/en/	homepage: https://www.morita.com/europe

. Further information obtainable from: Environment protection department

. **1.4 Emergency telephone number:** Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information:+49(0)700/GIFTINFO

SECTION 2: Hazards identification

. **2.1 Classification of the substance or mixture**

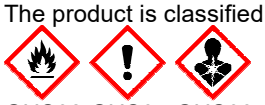
. Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 1	H372	Causes damage to the liver and the lymph nodes through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

. **2.2 Label elements**

. Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.

. Hazard pictograms



GHS02 GHS07 GHS08

. Signal word: Danger

. Hazard-determining components of labelling: White mineral oil (low viscosity)

. Hazard statements

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H372	Causes damage to the liver and the lymph nodes through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

. Precautionary statements

P102	Keep out of reach of children.
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.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P314	Get medical advice/attention if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

. Additional information: Buildup of explosive mixtures possible without sufficient ventilation.

. **2.3 Other hazards**

. Results of PBT and vPvB assessment

. PBT: Not applicable.

. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

. **3.2 Chemical characterisation: Mixtures**

. Description: Active substance with propellant

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. Dangerous components:		
CAS: 106-97-8 EINECS: 203-448-7	butane (containing ≤ 0,1 % butadiene (106-99-0)) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	50 – 100%
CAS: 74-98-6 EINECS: 200-827-9	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 – 25%
	White mineral oil (low viscosity) STOT RE 1, H372; Asp. Tox. 1, H304	10 – 25%
CAS: 75-28-5 EINECS: 200-857-2	isobutane (containing ≤ 0,1 % butadiene (106-99-0)) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	< 2.5%

. Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. **4.1 Description of first aid measures**
. After inhalation: Supply fresh air; consult doctor in case of complaints.
. After skin contact: Wash with water and soap and rinse thoroughly
. After eye contact: Rinse opened eye for several minutes under running water.
. After swallowing: Seek immediate medical advice.
. **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
. **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

. **5.1 Extinguishing media**
. Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
. For safety reasons unsuitable extinguishing agents: Full jet water
. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
. **5.3 Advice for firefighters**
. Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures** Keep away from ignition sources.
. **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
. **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
. **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

. **7.1 Precautions for safe handling** Open and handle receptacle with care.
. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

. **7.2 Conditions for safe storage, including any incompatibilities**
. Requirements to be met by storerooms and receptacles: Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
. Information about storage in one common storage facility: Store away from foodstuffs.
. Further information about storage conditions: Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
. **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

. **8.1 Control parameters**
. Additional information about design of technical facilities: No further data; see item 7.

. Ingredients with limit values that require monitoring at the workplace:

CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

WEL: Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

. Additional information: The lists valid during the making were used as basis.

. **8.2 Exposure controls**
. Personal protective equipment:
. General protective and hygienic measures: Wash hands before breaks and at the end of work.
. Respiratory protection: Not required.
. Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
. Eye protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

. **9.1 Information on basic physical and chemical properties**
. General Information
. Appearance:
Form: Aerosol
Colour: Colourless
. Odour: Odourless
. Odour threshold: Not determined.

. pH-value: Not determined.

. Change in condition
Initial boiling point and boiling range: -44.5 °C

. Flash point: -80 °C

. Flammability (solid, gas): Not applicable.

. Ignition temperature: 365 °C

. Decomposition temperature: Not determined.

. Auto-ignition temperature: Product is not selfigniting.

. Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

. Explosion limits:
Lower: 1.5 Vol %
Upper: 10.9 Vol %

. Vapour pressure at 20 °C: 8,300 hPa

. Density at 20 °C: 0.6855 g/cm³
. Relative density Not determined.
. Vapour density Not determined.
. Evaporation rate Not applicable.

. Solubility in / Miscibility with water: Not miscible or difficult to mix.

. Partition coefficient: n-octanol/water: Not determined.

. Viscosity:
Dynamic: Not determined.
Kinematic: Not determined.

. Solvent content:
Organic solvents: 77.2 %
VOC (EC) 78.25 %
539.7 g/l

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VOC (EU) (%)	78.7 %
Solids content:	21.3 %
. **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

. **10.1 Reactivity** No further relevant information available.
. **10.2 Chemical stability**
. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
. **10.3 Possibility of hazardous reactions** No dangerous reactions known.
. **10.4 Conditions to avoid** No further relevant information available.
. **10.5 Incompatible materials:** No further relevant information available.
. **10.6 Hazardous decomposition products:** Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol

SECTION 11: Toxicological information

. **11.1 Information on toxicological effects**
. Acute toxicity Based on available data, the classification criteria are not met.
. Primary irritant effect:
. Skin corrosion/irritation Based on available data, the classification criteria are not met.
Crl;KBL (NZW) Intracutaneous reactivity PII: 1.0 Investigation by a third party organization
. Serious eye damage/irritation Based on available data, the classification criteria are not met.
. Respiratory or skin sensitisation LLNA Stimulation index < 3, Investigation by a third party organization
. Additional toxicological information:
. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
. Germ cell mutagenicity Based on available data, the classification criteria are not met.
. Carcinogenicity Based on available data, the classification criteria are not met.
. Reproductive toxicity Based on available data, the classification criteria are not met.
. STOT-single exposure May cause drowsiness or dizziness.
. STOT-repeated exposure Causes damage to the liver and the lymph nodes through prolonged or repeated exposure.
. Aspiration hazard May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

. **12.1 Toxicity**

. Aquatic toxicity:	
CAS: 106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)
CAS: 74-98-6 propane	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)
CAS: 75-28-5 isobutane (containing ≤ 0,1 % butadiene (106-99-0))	
EC50 (96h)	7.71 mg/l (Algae)
LC50 (96h)	27.98 mg/l (Fisch)

. **12.2 Persistence and degradability** No further relevant information available.
. **12.3 Bioaccumulative potential** No further relevant information available.
. **12.4 Mobility in soil** No further relevant information available.
. Additional ecological information:
. General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
. **12.5 Results of PBT and vPvB assessment**
. PBT: Not applicable.
. vPvB: Not applicable.
. **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**
. Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

. European waste catalogue	
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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. Uncleaned packaging:
. Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

. **14.1 UN-Number**
. ADR, IMDG, IATA: UN1950

. **14.2 UN proper shipping name**
. ADR: 1950 AEROSOLS
. IMDG: AEROSOLS
. IATA: AEROSOLS, flammable

. **14.3 Transport hazard class(es)**

. ADR

. Class: 2 5F Gases.
. Label: 2.1

. IMDG, IATA

. Class: 2.1
. Label: 2.1

. **14.4 Packing group**
. ADR, IMDG, IATA: Void

. **14.5 Environmental hazards:**
. Marine pollutant: No

. **14.6 Special precautions for user**: Warning: Gases.
. Hazard identification number (Kemler code): -
. EMS Number: F-D,S-U
. Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**: Not applicable.

. Transport/Additional information:

. ADR
. Limited quantities (LQ): 1L
. Excepted quantities (EQ): Code: E0 Not permitted as Excepted Quantity
. Transport category: 2
. Tunnel restriction code: D

. IMDG
. Limited quantities (LQ): 1L
. Excepted quantities (EQ): Code: E0 Not permitted as Excepted Quantity

. UN "Model Regulation": UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

. Directive 2012/18/EU
. Named dangerous substances - ANNEX I: None of the ingredients is listed.
. Seveso category: P3a FLAMMABLE AEROSOLS

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. Qualifying quantity (tonnes) for the application of lower-tier requirements: 150 t
. Qualifying quantity (tonnes) for the application of upper-tier requirements: 500 t
. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Department issuing SDS: Environment protection department.
. Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1