SAFETY DATA SHEET
IN ACCORDANCE WITH REGULATION (EC) 1907/2006 (REACH)
Lockdeicer spray

Preparing date: 19 september 2023 **Version: 1.**

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

1.1. Product identifier: **Lockdeicer spray**

UFI: RN1R-RQMV-6SKS-WH8C

1.2. Relevant identified uses of the substance or mixture and uses advised against:
Identified uses: Maintenance. Consumer, industrial and professional use.
Uses advised against: Use other than identified.

1.3. Details of the supplier of the safety data sheet
Distributor:

SZAKAL MET-AL Zrt
2040 Budaörs, Kamaraerdei u 9/C.
Tel.: +36 23 431-000
HUNGARY

Email address for competent person responsible for the safety data sheet: kozpont@szakalmetal.hu

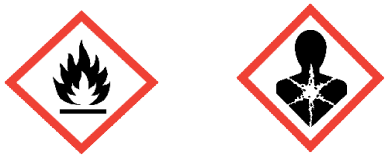
1.4. Emergency telephone number
Health Toxicology Information Service
Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
06-80-201-199 (free charge, 24 hours a day)
06-1-476 6464

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable aerosols Category 1	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Specific target organ toxicity –	H373 May cause damage to organs (central nervous system)
repeated exposure Category 2	through prolonged or repeated exposure.
Hazardous to the aquatic environment (Chronic) Category 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements:
Composition: 10-20% MOL Process O 15 process and spindle oil; 5-15 % Farmlight; 40-50% Hungranalc D A IPA MEK D; 40-50 % Propane/butane/isobutane propellant gas.



Signal word: Danger

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

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.
P273 Avoid release to the environment.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/ attention if you feel unwell.
P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/ container to as hazardous waste in accordance with local/ regional/national/international regulation.

Note:
When packing/labelling the product, the provisions of the Decree 34/2014 (X. 30.) of the Ministry of Agriculture and Forestry (on the requirements for the marketing of aerosol products and aerosol packaging) must also be followed.

2.3 Other hazards:
Its vapours are heavier than air, can disperse on the surface of the ground and are explosive form explosive gas/air mixtures.
PBT, vPvB assessment: the mixture does not contain PBT or vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	CAS Number	EK Number	Registration Number	Concentration m/m%	Classification
Mixture: MOL Process O 15 process and spindle oil*	-	-	-	10-20 %	Asp.Tox.1 H304
Mixture: Farmlight*	-	-	-	5-15 %	Flam.Liq.2. H226 STOT SE 3 H336 STOT RE 1 H372 (központi idegrendszer) Asp.Tox.1 H304 Eye irrit.2 H319 Aquatic Chronic 2 H411
Mixture: Hungranalc D A IPA MEK DB*	-	-	-	40-50 %	Flam. Liq. 2 H225
Propellant – PB 4.2 T:				40-50%	
Propane	74-98-6	200-827-9	601-003-00-5/01-2119486944-21	-	Flam.Gas 1, H220 Press Gas
Butane	106-97-8	203-448-7	601-004-00-0/01-2119474691-32	-	Flam.Gas 1, H220 Press Gas
Isobutane (1,3-butadiene content: < 0,1%)	75-28-5 106-99-0	200-857-2 203-450-8	601-004-0-0/01-2119485395-27 601-013-00-X/01-2119471988-16	-	Flam.Gas 1, H220 Press Gas

* The classification of the material was done by the manufacturer.
The full text of the H statements can be found under section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General measures: Fresh air is needed. In case of symptoms, complaints or doubt consult a doctor immediately. In case of sickness, seek medical attention.
Never administer anything by mouth to an unconscious person.
In case of inhalation: The casualty should be moved to fresh air and be placed in a resting position so that they can breathe easily.
In case of coughing, difficulty in breathing or feeling unwell, a doctor should be called immediately.
In case of skin contact: take off contaminated clothing and wash contaminated skin with plenty of soap and water. In case of complaint or irritation, seek medical advice.
In case of eye contact: flush eyes with plenty of running water for at least 10-15 minutes. Keep the eyelid edges apart and move the eyeball at the same time. Remove contact lenses if you have them and if this can be done easily. Continue rinsing. Seek medical advice in case of complaints or irritation.
In case of ingestion: Ingestion is unlikely (aerosol). Accidental ingestion of the spray into the mouth. In case of accidental ingestion, do not vomit, call a doctor immediately. Show the data sheet/label.

4.2 Most important symptoms and effects, both acute and delayed

Repeated or prolonged exposure may cause damage to organs (central nervous system). Higher concentrations of propellant gas can cause asphyxiation and oxygen starvation oxygen.

4.3 Indication of any immediate medical attention and special treatment needed:

Monitoring and symptomatic treatment is required. The Safety Data Sheet/Label should be shown to the doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Extinguishing powder, carbon dioxide, extinguishing foam.
Extinguishing media, which shall not be used for safety reasons: Strong water jet. (only for cooling the bottle).

5.2 Special hazards arising from the substance or mixture:

Extremely flammable aerosol. The vessel is overpressurized: due to heat may rupture.
Heating of the closed pressurised cylinder may cause
Risk of explosion. In case of fire, dangerous decomposition products may be produced: CO, CO_2.
The resulting gases can form an explosive mixture with air. The area must be evacuated. Due to the aerosol formulation, the mixture is highly explosive.
of the mixture is unlikely.

5.3 Advice for firefighters:

In case of fire, appropriate fire-resistant protective clothing and the use of isolation respiratory protection independent of the ambient air is required.

The resulting combustion products must not be inhaled. Leakage must be be eliminated. Prevent the extinguishing agent from entering drains, living water or the environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Only designated, trained personnel involved in the rescue operation in the area at risk, emergency responders and remove unauthorised persons.
Remove all sources of ignition, open flames.
Stop leaks if this can be done without danger.
Keep open flames, ignition sources and sparks out of the air space. Only non-sparking devices may be used.
Observe hygiene and safety regulations. Persons who involved in the discharge must use personal protection. Vapours are heavier than air, can disperse on the ground surface, explosive potentially explosive gas/air mixture. Ensure ventilation of the hazardous area.

6.2 Environmental precautions

Do not discharge into the environment, drains, soil, groundwater or living water. (extremely flammable aerosol, may cause explosion if released into sewerage system) All sources of ignition, open flames must be blocked/removed if without risk
can be done without danger. In the event of entry into the environment, water, public sewerage systems, the territorially competent authorities and operators must be notified immediately. Release in large quantities is unlikely (aerosol bottle).

6.3 Methods and material for containment and cleaning up

Stop the leak if it can be done without risk. Do not breathe in the spray. The danger area must be sealed off and unauthorised persons must not enter the area entry.
The spill is covered with non-combustible absorbent material (e.g. dry earth, sand) should be collected and placed in a sealed container until disposal. Rags soaked with the product, paper or materials used to clean up spillage may present a fire hazard.

6.4 Reference to other sections

Safe handling (as described in section 7).
See section 8 for information on personal protective equipment.
For information on disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

It can be used outdoors or in a well-ventilated room. Keep away from sources of ignition and do not smoke. The prescribed safety and hygiene measures must be observed. The contact with the product should be avoided with eyes and skin, inhalation of aerosol.
Do not eat or drink during use. Personal protective equipment must be used. Contaminated clothing must be removed and should be recleaned before reuse. Use running water during breaks and after work, washing hands with soap and water.

7.2 Conditions for safe storage, including any incompatibilities

It sould be stored in a well-ventilated, cool, dry place at a temperature below 35 °C.
Do not expose to temperatures exceeding 50 °C.
Heating may cause the bottles to rupture, risk of explosion. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.
No smoking in the storage area. Protection against electrostatic charging is required. The electrical equipment must comply with the regulations. Exposure to solar radiation, radiant exposure to radiant heat or fire, even when empty. The regulations for bottles under pressure must be observed.
Do not store with: strong oxidants.
Keep separate from food, beverages and animal feed. Keep out of reach of children.

7.3 Specific end use(s): Maintenance. Consumer, industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Limit values permitted in workplace air (Hungary):
According to Decree No 5/2020 (II. 6.) ITM on the protection of the health and safety of workers exposed to chemical agents, the values of the average concentration and the maximum permissible concentration in the workplace air of dangerous substances and their characteristic properties are:

Substance name	CAS-number	ÁK-value (mg/m^3)	CK-value (mg/m^3)	Characteristic property	Reference	ÁK correction group
ETIL-ALKOHOL	64-17-5	1900	3800	-	-	N
IZOPROPIL-ALKOHOL	67-63-0	500	1000	b, i	-	R
n-BUTÁN	106-97-8	2350	9400	-	-	N
1,3-BUTADIÉN	106-99-0	2,2	-	k(1A), i	EU6	T

N	Irritants, simple asphyxiants, low health hazards substances. Correction is NOT necessary.
R	Substances that may cause adverse health effects from SHORT exposure exposure. Corrected ÁK = ÁK x 8/a hours per day
T	Substances that may cause adverse health effects CONSIDERING exposure after exposure. Corrected ÁK = ÁK x 40/a hours per week
b	It is also absorbed through the skin.
i	an irritant that excites the skin, mucous membranes, eyes or all three
k(...)	carcinogenic (in brackets Regulation (EC) No 1272/2008 of the European Parliament and of the Council, in short: CLP Regulation classification)
EU1	Value notified in EU Directive 2019/130

ÁK-value average allowable concentration
CK-value maximum allowable concentration
CAS-number Chemical Abstracts Service used to identify chemicals registration number

Recommended limits for biological exposure and action indicators for occupational chemical exposure in urine

			Permissible limit			
Chemical substance	Biological exposure (effect) indicator	Sampling time	mg/g creatinine	micromoles/mmol creatinine (rounded values)	mg/l	µmol/l
Izopropil-alkohol (Propan-2-ol)	aceton	m.v. (=end of shift)			25	430

8.2 Exposure controls

The usual precautions for handling chemicals, for cylinders under pressure safety rules and hygiene requirements must be observed.
When working, due care must be taken to avoid getting the mixture on floors, clothing, skin or in the eyes. The product should only be used with adequate ventilation.
Do not eat or drink while working. Smoking is prohibited. Avoid contact with skin and eyes.
Aerosol must not be inhaled.
Contaminated protective clothing must be removed and cleaned before reuse.
During breaks in work and after work and before meals, wash with running water with soap.
Technical measures: it can be used with adequate ventilation.
Individual precautions, such as personal protective equipment:

(a) **Eye/face protection**: in case of risk of eye contact, use close-fitting safety goggles in accordance with the regulations (EN 166).

(b) **Hand protection**: use protective gloves according to the regulations (EN 374).
The gloves must be impermeable and resistant to the chemical agent.
When choosing the right protective gloves, other qualitative aspects than the material must be taken into account, which vary from manufacturer to another.
As regards the exact breakthrough time of the protective gloves, contact the manufacturer of the protective equipment for detailed information and keep in mind the information provided. Contaminated gloves should be removed and cleaned before reuse.
For continuous use, use protective clothing that complies with the regulations.

(c) **protection of the respiratory tract**: Use respiratory protection in accordance with the regulations if the exposure limit values are exceeded.

Selection of individual protection should be based on specific exposure, risk assessment data from the risk assessment.

Environmental exposure controls: Do not discharge into drains, living water or the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Physical State:	aerosol
b)	Colour:	light yellow
c)	Odour:	characteristic, alcoholic
d)	Melting point/freezing point	No data available.
e)	Boiling point or initial boiling point and boiling range: No data available.	
f)	Flammability:	Highly flammable aerosol.
g)	Lower and upper explosion limit	No data available.
h)	Flash point:	No data available.
i)	Auto-ignition temperature:	No data available.
j)	Decomposition temperature:	No data available.
k)	pH:	Not relevant.
l)	Kinematic viscosity:	No data available.
m)	Solubility:	soluble with water
n)	Partition coefficient n-octanol/water (log value): No data available.	
o)	Vapour pressure:	No data available.
p)	Density and/or relative density:	No data available.
q)	Particle characteristics:	No data available.

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: unknown, under normal conditions of storage and use

10.2 Chemical stability: stable, under normal conditions of storage and use

10.3 Possibility of hazardous reactions: No dangerous reactions occur when stored and handled according to the instructions.

10.4 Conditions to avoid: Take precautions against electrostatic charging.
Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition.
Smoking is prohibited. Do not spray on open flames or other sources of ignition.
Do not puncture or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

10.5 Incompatible materials: strong oxidants, strong acids and alkalis

10.6 Hazardous decomposition products: There is no known degradation products under normal using. In case of fire and incomplete burning, dangerous combustion products may be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) acute toxicity:
Based on the available data, the classification criteria are not met.

(b) skin corrosion/irritation:
Based on the available data, the classification criteria arenot met

(c) serious eye damage/irritation:
Based on the available data, the classification criteria are not met.

(d) respiratory or skin sensitisation:
Based on the available data, the classification criteria are not met.

(e) germ cell mutagenicity:
Based on the available data, the classification criteria are not met.

(f) carcinogenicity:
Based on the available data, the classification criteria are not met.

(g) reproductive toxicity:
Based on the available data, the classification criteria are not met.

(h) STOT-single exposure:
Based on the available data, the classification criteria are not met.

(i) STOT-repeated exposure:
May cause damage to organs (central nervous system) through prolonged or repeated exposure.

(j) aspiration hazard:
Based on the available data, the classification criteria are not met.

11.2. Information on other hazards: No data available.

SECTION 12: Ecological information

12.1 Toxicity:
12.2 Harmful to aquatic life with long lasting effects.
12.3 Persistence and degradability:
No data available for the mixture.
12.4 Bioaccumulative potential:
No data available for the mixture.
12.5 Mobility in soil:
No data available for the mixture.
12.6 Results of PBT and vPvB assessment
The substances do not meet the criteria for classification as PBT or vPvB.
12.7 Endocrine disrupting properties:
No data available.
12.8 Other adverse effects:
No data available. No discharge into water supply, sewer, soil, groundwater or living water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Hazardous waste. Not to be treated with communal waste.

Disposal of the material/mixture: Dispose of in accordance with local regulations

May be disposed of in accordance with local regulations. [225/2015 (VIII. 7.) Korm.]
Disposal of contaminated packaging:
Disposal should be in accordance with local regulations. [Government Decree 442/2012 (XII. 29.) on packaging and packaging waste management activities]

Proposed waste code:
16 05 04* (hazardous waste stored in pressure containers) gases (including halons) containing dangerous substances contained in pressurised containers.
* hazardous waste

This product is assigned to the appropriate waste identification major group, subgroup and each depends on the use of the material.
Wastes from the generating source can be classified in several different main categories according to the characteristics of the waste, taking into account the relevant regulations. [Decree 72/2013 (VIII. 27.) VM on the list of waste]

SECTION 14: Transport information

14.1 UN number or ID number: UN 1950
14.2 UN proper shipping name: AEROSOLS, flammable
14.3 Transport hazard class(es):
ADR/RID:
Class: 2
Classification code: 5F
Labels: 2.1
Transport category (Tunnel restriction code): 2(D)
Limited quantity: 1 litre
14.4 Packing group: not applied
14.5 Environmental hazards: Dangerous for the environment.
Marine pollution: No.
14.6 Special precautions for user: Not applicable.
14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

Chemical safety:

- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and

- Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
- REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- Public Act No. XXV. of 2000 on Chemical Safety
- Decree 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour on the detailed rules of certain procedures and activities related to dangerous substances and dangerous preparations
- 34/2014. (X. 30.) NGM Regulation on the marketing requirements for aerosol products and aerosol packaging

Occupational safety:

- 3/2002 (II.8.) Joint Decree SzCsM-EüM on the minimum level of occupational safety and health requirements in workplaces
- Act XCIII of 1993 on Occupational Safety and Health
- (XII. 22.) EüM Decree 65/1999 on the minimum safety and health protection requirements for the use of personal protective equipment by workers at work
- ITM Decree 5/2020 (II. 6.) on the protection of the health and safety of workers exposed to chemical agents

Hazardous wastes:

- Act CLXXXV of 2012 on Waste
- 225/2015 (VIII.7.) Gov. Regulation on detailed rules for certain activities related to hazardous waste
- 442/2012 (XII. 29.) Gov. Regulation on packaging and waste management activities related to packaging waste
- 72/2013 (VIII. 27.) VM Regulation on the List of Waste

Delivery:

- 61/2013 (X. 17.) NFM Decree on the domestic application of Annexes A and B of the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)

15.2 **Chemical safety assessment:** The supplier has not carried out a chemical safety assessment.

SECTION 16: Other information

a) This document is a translation of the product hungarian safety data sheet version 2 dated 20. june 2022.

b) Abbreviations used in the data sheet:

CAS number: CAS number is the Chemical Abstracts Service registration number used to identify chemicals (chemical elements, compounds).

PBT: Persistent, bioaccumulative and toxic

vPvB: Very persistent and very bioaccumulative

LD50: Lethal dose in 50% of the studied population (medium lethal dose)

LC50: Lethal concentration in 50% of the studied population

ADR: European Agreement on the international carriage of dangerous goods by road

IMO: International Maritime Organization

RID: Rules on the international carriage of dangerous goods by rail

ICAO: International Civil Aviation Organisation

c) The hazard classification was carried out by the supplier according to Regulation (EC) No 1272/2008 (calculation method).

d) List of relevant hazard (H) statements which are not written out in full under Sections 3:

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H372 Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

The safety data sheet has been prepared in accordance with the applicable EU and Hungarian legislation in force. It is limited to our current knowledge, does not guarantee the properties of the product and does not form the basis of any legal relationship.