SAFETY DATA SHEET
IN ACCORDANCE WITH REGULATION (EC) 1907/2006 (REACH)
Rust remover

Preparing date: 30 november 2023 **Version: 1.**

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

1.1. Product identifier: **Rust remover**

UFI: 1RSD-G98U-1V17-HCCR

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:

Email address for competent person responsible for the safety data sheet:

1.4. Emergency telephone number
Health Toxicology Information Service
Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)
06-80-201-199 (free charge, 24 hours a day- from Hungary only)
06-1-476 6464 (Available 0-24 hours for a standard fee - also from abroad)

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.
Skin sensitisation Category 1	H317 May cause an allergic skin reaction.

2.2 Label elements:
Composition: Orange, sweet, ext.

Signal word: Danger

Hazard statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.

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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
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.

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.
Endocrine disrupting properties: No data available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	CAS Number	EK Number	Registration Number	Concentration m/m%	Classification
NOVOWASH MP ORANGE **Contains:**				**60-70 %**	***** **Asp. Tox. 1 H304** **Skin Sens 1 H317**

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	918-481-9	-/ 01-2119457273-39-XXXX	-	* Asp. Tox. 1 H304
Orange, sweet, ext.	8028-48-6	232-433-8	-/ 01-2119493353-35-XXXX	-	* Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411
Mixture: MOL Process O 15 process and spindle oil **Contains:**				**20-30 %**	*** Asp.Tox.1 H304**
Distillates (petroleum), solvent-dewaxed light paraffinic Baseoil – unspecified *Note L.*	64742-56-9	265-159-2	-/ 01-2119480132-48	-	* Asp. Tox. 1 H304
Distillates (petroleum), solvent-dewaxed light paraffinic Baseoil – unspecified *Note L.*	64742-65-0	265-169-7	-/ 01-2119471299-27	-	* Not dangerous
Distillates (petroleum), hydrotreated light paraffinic Baseoil – unspecified *Note L.*	64742-55-8	265-158-7	-/ 01-2119487077-29	-	* Asp. Tox. 1 H304
Hungranalc D A IPA MEK DB **Contains:**				**5-10 %**	*** Flam. Liq. 2 H225**
ethanol	64-17-5	200-578-6	603-002-00-5/ 01-2119457610-43-0147	-	Flam. Liq. 2 H225

isopropyl alcohol	67-63-0	200-661-7	603-117-00-0/ -	-	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
ethyl methyl ketone	78-93-3	201-159-0	606-002-00-3/ -	-	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Propellant – PB 4.2 T **Contains:**				-	***** **Flam. Gas 1A H220** **Press Gas H280** **(liquefied gas)**
Propane	74-98-6	200-827-9	601-003-00-5/01-2119486944-21	-	* Flam. Gas 1A H220 Press Gas H280 (liquefied gas)
Butane	106-97-8	203-448-7	601-004-00-0/01-2119474691-32	-	* Flam. Gas 1A H220 Press Gas H280 (liquefied gas)
Isobutane	75-28-5	200-857-2	601-004-0-0/01-2119485395-27-0019	-	* Flam. Gas 1A H220 Press Gas H280 (liquefied gas)
1,3-butadiene	106-99-0	203-450-8	601-013-00-X/01-2119471988-16	-	* Flam. Gas 1A H220 Press Gas H280 (liquefied gas) Muta. 1B H340 Carc. 1A H350

* 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). In case of accidental ingestion, do not vomit. At higher concentrations, propellant gas can cause suffocation and oxygen starvation.

4.2 Most important symptoms and effects, both acute and delayed

Inhaling large amounts of vapour may cause respiratory irritation.

At higher concentrations, propellant gas can cause suffocation and oxygen starvation.

4.3 Indication of any immediate medical attention and special treatment needed:
No special care is needed, symptomatic treatment. Keep the affected person under observation. Show the safety data sheet/label to the doctor.

SECTION 5: Firefighting measures

5.1 Extinguishing media:
Suitable extinguishing media: Extinguishing powder, carbon dioxide, extinguishing foam, water spray/water mist (to be used only by a qualified person).
Unsuitable inoculant: Strong water jet. Water may be used to cool tanks.

5.2. Special hazards arising from the substance or mixture:
Extremely flammable aerosol. The vessel is overpressurized: due to heat may rupture. Heating of closed pressurised containers is explosive. In the event of fire, smoke and other combustion products (carbon monoxide, carbon dioxide, hydrocarbons, soot) may be produced and can cause serious health hazards if inhaled. Do not breathe in combustion products.

5.3 Advice for firefighters:
Clear the area. Extinguish from a safe distance or sheltered place.
Large releases are unlikely due to the aerosol form of the product.
Move people and non-flammable materials to a safe place.
Full protective clothing and self-contained breathing apparatus should be used. Stop leakage. Prevent extinguishing agent from entering drains, living water and the environment. Full protective clothing and self-contained breathing apparatus should be used. Stop leakage. Prevent extinguishing agent from entering drains, living water and the environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Only designated, trained, emergency care personnel involved in the rescue should be in the danger area, and unauthorised persons should be removed. Remove all sources of ignition, open flames. No open flames, ignition sources, sparks in the airspace. Use only non-sparking devices. Observe hygiene and safety regulations.

Spillage is a slip hazard due to the oil content. Prevent contact with skin and eyes. Wear appropriate personal protective equipment as required. Product vapours are heavier than air and may spread at ground level. The vapours may form an explosive gas/air mixture. Ensure ventilation of the hazardous area.

6.2 Environmental precautions

Any product or waste that is released into the environment must be treated in accordance with the environmental legislation in force. The product and its waste must be prevented from entering living water, soil and public sewers. If environmental contamination has occurred, the competent authority must be informed immediately. The product may pose an explosion hazard if discharged into the sewerage system. Larger quantities are unlikely to escape (aerosol bottle).

6.3 Methods and material for containment and cleaning up

Stop the leak if it can be done without risk.
Remove ignition sources. Collect any spillage with non-combustible absorbent material (e.g. dry earth, sand, vermiculite, etc.) and dispose of in accordance with the relevant regulations. Control the gas concentration with a water spray. Rags, paper towels and absorbent materials contaminated by the product may be a fire hazard. Product spillage is a slip 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

For use 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.
Do not eat or drink while using.
Personal protective equipment must be used. Contaminated clothing must be removed and cleaned before re-use. Wash hands with soap and running water during breaks and after work.
Fire and explosion protection: highly flammable aerosol.
Overpressure in the container: may crack under heat.
Keep away from heat, hot surfaces, sparks, open flame and other sources of ignition.
Smoking is prohibited.
Do not spray on open flames or other sources of ignition.
Take precautions against electrostatic charging.
Use only non-sparking devices.
Product vapours are heavier than air and may spread at ground level. Vapours can form an explosive gas/air mixture.
Do not puncture or throw into a fire, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated, dry and cool place at a temperature below 35 °C.
Do not expose to heat above 50 °C.

Containers may rupture on heating (risk of explosion).
No smoking in the storage room!
Take precautions against electrostatic charging.
Do not expose to sunlight or radiant heat. Do not puncture or throw into a fire, even after use.
Observe the precautions for pressurised containers.
Do not store with strong oxidizing agents or flammable substances.
Keep away from food, drink and animal feed.
Keep out of the reach of children.
Incompatible materials: see section

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)	ÁK-value ppm	CK-value (mg/m^3)	CK-value ppm	Characteristic property	Reference	ÁK correction group
ETIL-ALKOHOL	64-17-5	1900	1000	3800	2000	-	-	N
ETHYL METHYL KETONE	78-93-3	600	200	900	300	b, i	EU1	N
IZOPROPIL-ALKOHOL	67-63-0	500	200	1000	400	b, i	-	R
2-AMINOETHANOL	141-43-5	2,5	1	7,6	3	b	EU2	T
n-BUTÁN	106-97-8	2350		9400		-	-	N
1,3-BUTADIÉN	106-99-0	2,2	1	-		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
EU2	Value notified under Directive 2006/15
EU6	Value communicated in EU Directive 2019/130
ÁK-value	average allowable concentration
CK-value	maximum allowable concentration

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
ETHYL METHYL KETONE	ETHYL METHYL KETONE	m.v. (=end of shift)			2	28
Izopropil-alkohol (Propan-2-ol)	aceton	m.v. (=end of shift)			25	430

8.2 Exposure controls

Care should be taken when working to avoid getting the mixture on floors, clothing, skin or in the eyes. The product should only be used with adequate ventilation.
Observe the general instructions for handling chemicals. Observe precautions for pressurised containers. Observe industrial safety and basic hygiene rules.
Do not eat or drink while using the product. Smoking is prohibited!
Prevent contact with skin and eyes. Do not inhale the spray.
Remove contaminated clothing and wash before reuse. Wash hands with soap and running water before breaks and meals and after working hours.
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**: Protective gloves must be used in accordance with the regulations (EN 374). The gloves must be impermeable and resistant to the chemical agent. When choosing the right gloves, other qualitative aspects than the material should be taken into account, which vary from manufacturer to manufacturer. For detailed information on the exact breakthrough time of the gloves, contact the manufacturer of the protective equipment and refer to the information provided. Contaminated gloves should be removed and cleaned before reuse.

(c) **protection of the respiratory tract**: In the event of vapour formation, use a respirator with a type A filter that complies with the requirements.
For continuous use, protective clothing must be used in accordance with the regulations.
The choice of personal protection should be based on the specific exposure, according to the risk assessment.

Control of environmental exposure
Do not discharge into drains, watercourses or the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a)	Physical State:	aerosol
b)	Colour:	Colourless, possibly light amber
c)	Odour:	Characteristic odour
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: Explosion hazard: the mixture is not explosive, but explosive gas/air mixtures may occur.

SECTION 10: Stability and reactivity

10.1 Reactivity: No known reactivity if stored and handled according to specifications.
10.2 Chemical stability: Stable when stored and handled according to specifications.
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, alkalis, nitrates.
10.6 Hazardous decomposition products: Hazardous substances released during normal use hazardous decomposition products are not known. Hazardous decomposition products may be released in case of fire and incomplete combustion.

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:
May cause an allergic skin reaction.

(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: Information on likely exposure pathways
Inhalation, skin contact, eye contact.
Inhalation of large quantities of vapour may cause respiratory tract irritation. At higher concentrations, propellant vapour may cause asphyxiation and oxygen deprivation.

SECTION 12: Ecological information

12.1 Toxicity: No data are available for the mixture.
Based on the available data, the classification criteria are not met.

12.2 Persistence and degradability:
No data available for the mixture.

12.3 Bioaccumulative potential:
No data available for the mixture.

12.4 Mobility in soil:
Mineral oil floats on water, is absorbed in soil particles and loses its mobility.

12.5 Results of PBT and vPvB assessment
The substances do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disrupting properties:
No data available.

12.7 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

The residues of the product can be treated and disposed of in accordance with the provisions of Act CLXXXV of 2012, Government Decree 225/2015 (VIII. 7.) and Decree 72/2013 (VIII. 27.) of the Ministry of Agriculture and Forestry, and in accordance with EU regulations.

Proposed waste code:

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

Dispose of in accordance with the relevant regulations.
Packaging waste is classified as hazardous.
Do not dispose of packaging into drains or water bodies.
Prevent aerosol from entering the environment. Container under pressure.
Do not puncture or dispose of in fire, even after use.
Do not open, puncture, puncture or expose to temperatures above 50 °C, sunlight or radiant heat.

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 and discounted quantity: 1 L E0
14.4 Packing group: not applied
14.5 Environmental hazards: Non-hazardous to the environment.
Marine pollution: No.
14.6 Special precautions for user: See sections 6-8.
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 4 dated 25. october 2023.

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.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H411 Toxic 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.