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Reviewed on:	WELD PROTECT	Version: 1.0

1. Section 1. Identification of the substance/mixture and of the company/undertaking:

1.1. Product identifier:

Trade name: **WELD PROTECT**
Product code: **1 02.0044**

1.2. Relevant identified uses of the substance or mixture and uses advised against:

Uses of the mixture: Protection for the surrounding of welds (metal surface treatment)

Sector of use category (SU):

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

Process category (PROC):

PROC7 Industrial spraying

PROC11 Non industrial spraying

Uses advised against: Not known.

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

Identification of manufacturer/Supplier:

RETECH, s.r.o.
Vackova 1541/4
150 00 Praha 5 - Stodůlky

Telephone number/Fax: +420 327 596 128, +420 327 596 428

E-mail: info@retech.cz

1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic

Telephone number: +420 327 596 128 (7.30-16.00 hour)

Toxikologické informační středisko (Toxicology information centre),

Na bojišti 1, 128 08 PRAHA 2, Czech Republic

Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

2. Section 2. Hazard identification:

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Flam. Aerosol 1	H222 Extremely flammable aerosol.
	H229 Pressurised container: May burst if heated.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Danger

Hazard Statements:

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

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According to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

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Precautionary Statements:

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P251 Do not pierce or burn, even after use.
- P211 Do not spray on an open flame or other ignition source.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- P271 Use only outdoors or in a well-ventilated area.
- P261 Avoid breathing vapours/spray.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P331 Do NOT induce vomiting.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P403 Store in a well-ventilated place.
- P501 Dispose of contents/container in accordance with national regulation.

Supplemental Hazard information (EU):

- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Contained dangerous substances:

109-66-0 Pentane

2.3. Other hazards:

Results of PBT and vPvB assessment:

- PBT: Not applicable.
- vPvB: Not applicable.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients with propellants

Hazardous ingredients:

CAS: 109-66-0 EINECS: 203-692-4 Reg.nr.: 01-2119459286-30	Pentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	50 -< 75 %
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane (contains <0,1% butadiene) Flam. Gas 1, H220; Press. Gas, H280	10 -< 25 %
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane Flam. Gas 1, H220; Press. Gas, H280	10 -< 25 %
CAS: 37205-87-1	Isononylphenol, ethoxylated Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	3 -< 10 %
CAS: 5989-27-5 EINECS: 227-813-5 Reg.nr.: 01-2119529223-47	(R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	0.3 -< 1 %

For full text of H-statements: see SECTION 16.

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Substances of Very High Concern (SVHC):
37205-87-1 Isononylphenol, ethoxylated

4. Section 4. First aid measures:

4.1. Description of first aid measures:

General notes: When in doubt or if symptoms are observed, get medical advice.
 After inhalation: Move affected person to fresh air.
 Get medical attention if any discomfort continues.
 After skin contact: Wash with plenty of water and soap and rinse thoroughly.
 After eye contact: Rinse opened eye for several minutes under running water.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Get medical attention if any discomfort continues.
 After swallowing: Do not induce vomiting.
 Immediately call a doctor.

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.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO₂), extinguishing powder, water spray, alcohol resistant foam.

Unsuitable extinguishing agents:

Water with full jet.

5.2. Special hazards arising from the substance or mixture:

No further relevant information available.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:

Wear protective equipment, see Section 8.
 Keep unprotected persons away.
 Ensure adequate ventilation.

6.2. Environmental precautions:

Do not allow to enter sewage system, surface or ground water.
 Inform respective authorities in case product reaches water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Ensure adequate ventilation.
 Dispose contaminated material as waste according to Section 13.

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.

7. Section 7. Handling and storage:

7.1. Precautions for safe handling:

Protective measures:

Wear protective equipment, see Section 8.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.

Measures to prevent fire:

Do not spray onto a naked flame or any incandescent material.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Pressurized 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.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:

Store in a cool place.

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Observe official regulations on storing packagings with pressurized containers.

Technical measures and storage conditions:
Observe official regulations on storing packagings with pressurized containers.

Further information on storage conditions:
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.

8. Section 8. Exposure controls/personal protection:

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m ³	ppm	mg/m ³	
109-66-0	Pentane	600	1800	-	-	-
106-97-8	Butane	600	1450	750	1810	Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene)

DNEL

109-66-0 Pentane

Inhalation	Chronic effects systemic	3000	mg/m ³	Workers
	Chronic effects systemic	643	mg/m ³	Consumers
Dermal	Chronic effects systemic	432	mg/kg Body weight/day	Workers
	Chronic effects systemic	214	mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	214	mg/kg Body weight/day	Consumers

PNEC

109-66-0 Pentane

Freshwater	0.23	mg/l
Marine water	0.23	mg/l
Intermittent releases	0.88	mg/l
Sewage treatment plant	3.6	mg/l
Sediment (freshwater)	1.2	mg/kg
Sediment (marine water)	1.2	mg/kg
Soil	0.55	mg/kg

Additional information: The lists that were valid during the compilation were as basis.

8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.

General protective measures:

Wash hands before breaks and at the end of work.

Avoid breathing gas/vapours/spray.

Personal protection equipment:

Respiratory protection:

Respiratory protection usually not required with adequate ventilation.

In case of brief exposure or low pollution use respiratory filter device.

Filter, type AX/P2.

In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection:

Tightly sealed goggles.

Hand protection:

Protective gloves

Solvent resistant gloves

The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.

Recommended material of gloves: nitrile rubber

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.

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Skin protection: Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form:	Aerosol
Colour:	Colourless
Odour:	Solvent-like
Odour threshold:	Not determined
Value pH at 20 °C:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	-44 °C
Flash point:	-97 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Explosive properties:	The product is not explosive. However, formation of explosive air/steam mixtures is possible.
Explosive limits:	
– lower:	1.4 Vol. %
– upper:	10.9 Vol. %
Vapour pressure at 20°C:	8300 hPa
Vapour density at 20 °C:	Not determined
Density at 20°C:	0.623 g/cm ³
Relative density:	Not determined
Solubility in/miscibility:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined
Ignition temperature:	285 °C
Decomposition temperature:	Not determined
Self-ignition temperature:	The product is not selfigniting.
Viscosity:	Not determined
Oxidising properties:	Not determined
9.2. Other information:	
Organic solvent:	90.4 %
VOC:	563.3 g/l

10. Section 10. Stability and reactivity:

10.1. Reactivity:	No further relevant information available.
10.2. Chemical stability:	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:	No dangerous decomposition products known.

11. Section 11. Toxicological information:

11.1. Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

37205-87-1 Isononylphenol, ethoxylated

Oral	LD50	Rat	> 2000 mg/kg
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5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50 Rat	4400 mg/kg
Dermal	LD50 Rabbit	≥ 2000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

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Respiratory or skin sensitization:	Based on available data, the classification criteria are not met.
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:	Based on available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways.
Other information:	No further relevant information available.

12. Section 12. Ecological information:

12.1. Toxicity:

Aquatic toxicity: No further relevant information available.

109-66-0 Pentane

Fish:	LC50/96h Onchorhynchus mykiss	4.26 mg/l
Invertebrates:	EC50/48h Daphnia magna	2.7 mg/l
Algae:	EC50/72h Pseudokirchneriella subcapitata	10.7 mg/l
	NOEC/72h Pseudokirchneriella subcapitata	7.51 mg/l

37205-87-1 Isononylphenol, ethoxylated

Fish:	LC50	1 – 10 mg/l
Invertebrates:	LC50/48h Daphnia magna	1 – 10 mg/l
Algae:	EC/72h	1 - 10 mg/l

- 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.
- Ecotoxic effects: Remark: Toxic for fish.
- General notes: Also poisonous for fish and plankton in water bodies.
Toxic to aquatic organisms.
- 12.5. Results of PBT and vPvB assessment:
- PBT: Not applicable.
- VPvB: Not applicable.
- 12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

13.1. Waste treatment methods:

Product disposal:	Incineration is the recommended method of disposal. Must not be disposed together with household garbage. Do not allow product to reach sewage system. European Waste Catalogue: 16 03 05* organic wastes containing hazardous substances (*hazardous waste)
Packagings disposal:	Disposal must be made according to official regulations. Incineration is the recommended method of disposal. European Waste Catalogue: 15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers (*hazardous waste)
Other disposal recommendations:	Disposal must be made according to official regulations. The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. Section 14. Transport information:





14.1. UN number:

ADR, IMDG, IATA UN 1950

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14.2. UN proper shipping name:	
ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3. Transport hazard class(es):	
ADR	 
Class	2 5F Gases
Hazard label	2.1
IMDG	
Class	2.1
Hazard label	2.1
IATA	
Class	2.1
Hazard label	2.1
14.4. Packing group:	
ADR, IMDG, IATA	Void
14.5. Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
14.6. Special precautions for user:	Warning: gases
Danger Code (Kemler):	-
EMS Number:	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable
ADR	
Tunnel restriction code:	D
UN "Model Regulation":	UN 1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

15. Section 15. Regulatory information:

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)
 Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
 Commission Decision 2000/532/EC establishing a list of wastes, as amended
 Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended
 Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended
 Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
 Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values
 Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values
 Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

Danish MAL Code: 5-3

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15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Section 16. Other information:

Relevant H-statements (Section 3):

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level

EC: Effect Concentration

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

NOEC No Observed Effect Concentration

PBT: Persistent, Bioaccumulative, Toxic

PNEC: Predicted No-Effect Concentration

Reg.nr.: Registration number

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

WEL: Workplace exposure limits

Aquatic Acute 1: Hazardous to the aquatic environment, category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, category 2

Asp. Tox. 1: Aspiration hazard, category 1

Eye Irrit. 2: Serious eye irritation, category 2

Flam. Gas 1: Flammable gas, category 1

Flam. Liq. 2: Flammable liquid, category 2

Flam. Liq. 3: Flammable liquid, category 3

Press. Gas: Gases under pressure

Skin Irrit. 2: Skin irritation, category 2

Skin. Sens. 1: Skin sensitization, category 1

STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Compared to the last version the data has been changed.**