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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. 0045 - 5 L/1 02. 0046 - 10 L/1 02. 0047 - 25 L (canister)**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:
Uses of the mixture: Welding protection.
For professional and industrial use only.
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 informatické 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. Liq. 2 H225 Highly flammable liquid and vapour.
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:

H225 Highly flammable liquid and vapour.
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.

Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P235 Keep cool.
P501 Dispose of contents/container in accordance with national regulation.

Supplemental Hazard information (EU):
EUH208 Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Contained dangerous substances:
64742-49-0 Naphtha (petroleum), hydrotreated light

2.3. Other hazards:
Results of PBT and vPvB assessment:
Not applicable.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:
Description of the mixture: Mixture of active ingredients

Hazardous ingredients:

CAS: 64742-49-0 EINECS: 265-151-9 Reg. No.: 01-2119475514-35	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (contains < 0.1 % benzene) Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	75 -< 100 %
CAS: 37205-87-1	Isononylphenol, ethoxylated (3-7 EO) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 -< 20 %
CAS: 5989-27-5 EINECS: 227-813-5 Reg. No.: 01-2119529223-47	(R)-p-mentha-1,8-diene; d-limonen Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.3 -< 1 %

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

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.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Wash immediately 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: Water haze, carbon dioxide, fire-extinguishing powder, alcohol resistant foam.
Fight larger fires with water spray or alcohol resistant foam.

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Unsuitable extinguishing agents:	Water jet.
5.2. Special hazards arising from the substance or mixture:	No further relevant information available.
5.3. Advice for firefighters:	No special measures are necessary. 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 person away. Ensure adequate ventilation.
6.2. Environmental precautions:	Do not allow to enter sewage system, surface or ground water. Prevent seepage into sewage system, workpits and cellars. 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. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. Prevent formation of aerosols.
Measures to prevent fire:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
7.2. Conditions for safe storage, including any incompatibilities:	
Requirements for storage rooms and vessels:	Store in cool, dry conditions in well sealed receptacles.
Technical measures and storage conditions:	No special requirements.
Further information on storage conditions:	Keep container tightly sealed.
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			
Contains no substances with occupational exposure limit values.			
OEL (EU): 2000/39/EG, 2006/15/EG, 2009/161/EG			
Contains no substances with occupational exposure limit values.			
DNEL			
64742-49-0 Naphtha (petroleum), hydrotreated light			
Inhalation	Chronic effects systemic	2035 mg/m ³	Workers
	Chronic effects systemic	608 mg/m ³	Consumers
Dermal	Chronic effects systemic	773 mg/kg Body weight/day	Workers
	Chronic effects systemic	699 mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	699 mg/kg Body weight/day	Consumers

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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: Store away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gas/vapours/spray.

Avoid skin and eye contact.

Personal protection equipment:

Respiratory protection: Respiratory protection usually not required with adequate ventilation.

In case of inadequate ventilation wear suitable respiratory protection with filter, class A.

Eye protection: Tightly sealed goggles.

Hand protection: Protective gloves.

Solvent resistant gloves.

The glove material must be impermeable and resistant against the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product/preparation/chemical mixture.

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

Recommend material of gloves: nitrilrubber

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.

Skin protection:

Protective clothing.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Form: Liquid.

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: 78 °C

Flash point: -9 °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: 0.8 Vol. %

– upper: 7.7 Vol. %

Vapour pressure at 20 °C: 246 hPa

Vapour density at 20 °C: Not determined.

Density at 20 °C: 0.73 g/cm³

Relative density: Not determined.

Solubility in/miscibility: Not miscible or difficult to mix.

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Partition coefficient (n-octanol/water): Not determined.
 Ignition temperature: 200 °C
 Decomposition temperature: Not determined.
 Self-ignition temperature: The product is not selfigniting.
 Viscosity: Not determined.
 Oxidising properties: Not determined.

9.2. Other information:
 VOC (EU): 613.6 g/l
 Solid content: 16.6 %
 Organic solvent: 83.4 %

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.

Relevant hazards for substance:
 64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50 rat	> 5840 mg/kg
Dermal	LD50 rabbit	> 2920 mg/kg
Inhalative	LC50/4 h rat	> 25 mg/l

37205-87-1 Isononylphenol, ethoxylated (3-7 EO)

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.
 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: Toxic to aquatic life with long lasting effects.

64742-49-0 Naphtha (petroleum), hydrotreated light

Fish:	LL50/96 h	Oncorhynchus mykiss	11.4 mg/l
Invertebrates:	EL50/48 h	Daphnia magna	3 mg/l
	LOEC/21 days	Daphnia magna	0.32 mg/l
	NOEC/21 days	Daphnia magna	0.17 mg/l
Algae:	EL50/72 h	Pseudokirchneriella subcapitata	30 - 100 mg/l

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NOELR/72 h	Pseudokirchneriella subcapitata	3 mg/l
37205-87-1 Isononylphenol, ethoxylated (3-7 EO)		
Fish:	LC50 Oncorhynchus mykiss	1 - 10 mg/l
Invertebrates:	EC50/48 h Daphnia magna	1 - 10 mg/l
Algae:	EC50/48 h Pseudokirchneriella subcapitata	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.

Additional ecological information:

Remark: Toxic for fish.

General notes: Water danger class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow to enter water courses, ground water or drains.

Danger to drinking water if even small quantities leak into the ground.

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: 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.

European Waste Catalogue:

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*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 3295

14.2. UN proper shipping name:

ADR UN 3295 HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, METHYLCYCLOHEXANES), ENVIRONMENTALLY HAZARDOUS

IMDG HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, METHYLCYCLOHEXANES)

IATA HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, METHYLCYCLOHEXANES)

14.3. Transport hazard class(es):

ADR



Class: 3 Flammable liquids

Hazard label: 3


IMDG



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Class:	3 Flammable liquids
Hazard label:	3
IATA	
Class:	3 Flammable liquids
Hazard label:	3
14.4. Packing group:	II
ADR, IMDG, IATA	
14.5. Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
14.6. Special precautions for user:	Warning: Flammable liquids
EMS Number:	F-E, S-D
Danger Code (Kemler):	33
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable
ADR	
Tunnel restriction code	D/E
UN „Model Regulation“:	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (HEPTANES, METHYLCYCLOHEXANES), ENVIRONMENTALLY HAZARDOUS, 3, II

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

Class - %

NK - 75 -< 100

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

16. Section 16. Other information:

Relevant H-statements (Section 3):

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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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
EC50: Median effective concentration to 50% of a population
EC-Number: EINECS and ELINCS Number
EINECS: European Inventory of Existing Commercial Chemical Substances
EL50: Effective loading rate lethal to 50% of the test population
ELINCS: European List of Notified Chemical Substances
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LC50: Median concentration lethal to 50 % of a test population
LC50: Median concentration lethal to 50 % of a test population
LD50: Median dose lethal to 50 % of a test population
LD50: Median dose lethal to 50 % of a test population
LL50: Lethal loading rate for 50% of the test population
LOEC: Lowest Observed Effect Concentration
N.O.S.: Not Otherwise Specified entry
NOEC: No Observed Effect Concentration
NOELR: No Observable Effect Loading Rate
OEL: Occupational Exposure Limit
PBT: Persistent, Bioaccumulative, Toxic
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. Liq. 2: Flammable liquid, category 2
Flam. Liq. 3: Flammable liquid, category 3
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.**