

**MATERIAL SAFETY DATA SHEET**

according VO (EG) Nr. 1907/2006

Revision: 10.05.2016

Version: 1.0

**01. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Name of product: **Walther Pro Gun Care Expert Spray / 3.2077 / 3.2078**

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

**Recommended intended purpose(s)** lubricants, care products, maintenance products

**Homepage:** [www.umarex.de](http://www.umarex.de)

**Uses advised against**

None known

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

**Company:** Umarex GmbH & Co. KG  
Donnerfeld 2 D-59757 Arnsberg  
**Telephone:** +49(0)2932-638-01

**Advice:** Laboratory

**02. Hazards identification**

**2.1 Classification of the substance or mixture**

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

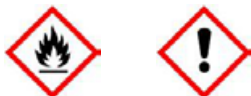
Aerosol 1: H222 – H229

Repr. 2: H361d

Aquatic Chronic 2: H411

**2.2 Label elements**

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



DANGER

Contains: Tris(methylphenyl)phosphate

**Hazard Statements**

- H222: Extremely flammable aerosol
- H229: Pressurized container. May burst if heated.
- H361: Suspected of damaging fertility or the unborn child.
- H411: Toxic to aquatic life with long lasting effects.
- EUH018: In use may form flammable/explosive vapour-air mixture.
- EUH066: Repeated exposure may cause skin dryness or cracking.
- EUH208: Contains Calcium bis (dinonyl naphthalene sulfonate); Benzene, mono-C16-24-alkyl derivates, calcium salts. May produce an allergic 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/fumes/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P308+313: IF exposed or concerned: Get medical advice/attention.
- P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P501: Dispose of contents/container to accordance with local/regional/national/international regulations.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**03. Composition/information on ingredients**

**3.1 Substances**

Not applicable

**3.1 Mixtures**

**Description**

Preparation of different active substances.

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Substance	EINECS/EG Reg. No	CAS	Contant [%]	Classification
Hydrocarbons, C10-C13, n-alkanes isoalkanes, cycloalkanes, <2% aromatics	918-481-9		25 -< 50	Asp. Tox. 1, H304
Isobutane	200-857-2	75-28-5	25 -< 50	Flam. Gas 1, H220; Press. Gas, H280
Propane	200-827-9	74-98-6	10 -< 25	Flam. Gas 1, H220; Press. Gas, H280
Distillates (petroleum), hydrotreated heavy paraffinic	265-157-1	64742-54-7	2,5 -< 10	Asp. Tox. 1, H304
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclic, aromatics (2-30%)	920-360-0		2,5 -< 10	Asp. Tox. 1, H304
Sulfonic acids, petroleum, sodium salts	271-781-5	68608-26-4	2,5 -< 10	Eye Irrit. 2, H319
Tris(methylphenyl)phosphate	1330-78-5	215-548-8	2,5 -< 10	Repr. 2, H361; Aqu. Acute 1, H400; Aqu. Chron. 1, H410
2-Ethylhexanoic acid, compound with dodecylamine (1:1)	285-327-9	85068-69-5	< 2,5	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Aquatic chron. 2, H411
Calcium bis (dionyl naphthalene sulfonate)	260-991-2	57855-77-3	< 1	Eye Irrit. 2 H319; Skin Irrit: 2 H315; Skin Sens. 1, H317
Benzene, mono-C16-24-alkyl derivates, calcium salts	274-263-7	70024-69-0	< 1	Skin Sens. 1B, H317

**04. First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**In case of skin contact**

Remove contaminated clothing.

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms (redness, burning, blurred vision, or swelling) seek medical treatment.

**If swallowed**

Not applicable

**4.2 Most important symptoms and effects, both acute and delayed**

**Physician's information / possible symptoms**

Drowsiness and dizziness. Irritation and dermatitis, weakness.

**4.3 Indication of any immediate medical attention and special treatment needed treatment (advice to doctor)**

No data available.

**05. Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, dry powder, carbon dioxide, water spray jet.

**Unsuitable extinguishing media**

Full water jet.

**5.2 Special hazards arising from the substance or mixture**

Extremely flammable. Fumes can combine with air an explosive mixture.

Exposure to decomposition products may cause health problems.

In case of fire formation of dangerous gases possible (carbon monoxide (CO), carbon dioxide (CO2)).

**5.3 Advice for fire-fighters**

**Special protective equipment for fire-fighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

**Additional information**

Cool endangered containers with water spray jet.

Fire residues and contaminated fire extinguishing water must be disposed in accordance with the local regulations.

Pay attention to flashback. Because of the high vapour pressure when heated bursting of the vessels.

**06. Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8 Personal equipment. Remove all sources of ignition. Avoid contact with eyes and skin. Ensure adequate ventilation, especially in confined spaces. Personnel evacuate immediately to safe place. Avoid inhalation of vapours or mist. Vapours may accumulate in low lying areas and may form flammable/explosive vapour-air mixture.

**6.2 Environmental precautions**

Do not discharge into the drains/ surface waters/ groundwater.

Inform pollution control authorities if product gets into the sewerage systems or surface waters.

**6.3 Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to local regulations.

**6.4 Reference to other sections**

Safe handling: see section 7

Disposal: see section 8.

Personal protection equipment: see section 13.

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**07. Handling and storage**

**7.1 Precautions for safe handling**

**Advice on safe handling**

Inventory levels at the workplace must be restricted. Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Vapours and spray mists.

Suspected of damaging fertility or harm to the unborn child.

**General protective measures**

Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.

Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

Keep away from sources of ignition – No smoking.

Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentration of vapour in air and avoid vapour exposure limits. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Take precautionary measures against static discharges. Electrical equipment should be protected to the appropriate standards.

Do not apply force or throw into fire even after use.

**7.2 Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels**

Store in original container. CAUTION: Aerosol are under pressure. Keep away from direct sunlight and temperatures above 50°C/122°F.

Do not apply force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry, cool and well ventilated place. Storage regulations for aerosols!

**Advice on storage compatibility**

Do not store together with food.

Do not store together with animal feedstuffs.

**7.3 Specific end use(s)**

**Recommendation(s) for intended use**

No data available.

**08. Exposure controls / personal protection**

**8.1 Control parameters**

Indicative occupational exposure limit values (91/322/EEC, 2006/15/EC or 2009/161/EU)

Substance	[ppm]	[mg/m³]	Excess factor
Hydrocarbons, C10-C13, n-alkanes isoalkanes, cycloalkanes, <2% aromatics		600	4
Propane	1000	1800	4
Isobutane	1000	2400	4

**DNEL-/PNEC-values:**

**DNEL worker**

Substance	value	Code
Tris(methylphenyl) phosphate	2,5 mg/kg bw/day	Long-term dermal (systemic)
	0,46 mg/m³	Long-term inhalative (systemic)

Substance	value	Code
Sulfonic acids, petroleum, sodium salts	3,33 mg/kg bw/day	Long-term dermal (systemic)
	0,66 mg/m³	Long-term inhalative (systemic)

Substance	value	Code
Benzene, mono-C16-24-alkyl derivatives, calcium salts	3,33 mg/kg bw/day	Long-term dermal (systemic)
	1,03 mg/kg bw/day	Long-term dermal (locale)
	11,75 mg/m³	Long-term inhalative (lssystemic)

**DNEL consumer**

Substance	value	Code
Tris(methylphenyl) phosphate	1,25 mg/kg bw/day	Long-term dermal (systemic)
	0,08 mg/m³	Long-term inhalative (systemic)
	0,05 mg/kg bw/day	Long-term oral (systemic)

Substance	value	Code
Sulfonic acids, petroleum, sodium salts	0,33 mg/m³	Long-term inhalative (systemic)
	1,667 mg/kg bw/day	Long-term dermal (systemic)
	0,8333 mg/kg bw/day	Long-term oral (systemic)

Substance	value	Code
Benzene, mono-C16-24-alkyl derivatives, calcium salts	2,9 mg/m³	Long-term inhalative (systemic)
	1,667 mg/kg bw/day	Long-term dermal (systemic)
	0,513 mg/kg bw/day	Long-term dermal (locale)
	0,8333 mg/kg bw/day	Long-term oral (systemic)

**PNEC**

Substance	value	Code
Tris(methylphenyl) phosphate	0,001 mg/l	Fresh water
	0,0001 mg/l	Marine water
	0,00146 mg/l	Water (intermittent releases)
	100 mg/l	STP
	2,05 mg/kg dwt	Sediment (fresh water)
	0,205 mg/kg dwt	Sediment (marine water)
	1,01 mg/kg dwt	Soil

Substance	value	Code
Sulfonic acids, petroleum, sodium salts	1 mg/l	Fresh water
	1 mg/l	Marine water
	10 mg/l	Water (intermittent releases)
	100 mg/l	STP
	723500g/kg dwt	Sediment (fresh water)
	723500 mg/kg dwt	Sediment (marine water)
	868700g/kg dwt	Soil
	16,667 mg/kg food	Oral

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Substance	value	Code
Benzene, mono-C16-24-alkyl derivatives, calcium salts	1 mg/l	Fresh water
	10 mg/l	Marine water
	1000 mg/l	Water (intermittent releases)
	226000g/kg dwt	STP
	226000 mg/kg dwt	Sediment (fresh water)
	271000g/kg dwt	Sediment (marine water)
	16,667 mg/kg food	Soil
		Oral

**Additional advice:**

The statutory local and national regulations have to be observed.

**8.2 Exposure controls**

**Appropriate engineering controls**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**Respiratory protection**

At concentrations above the exposure limit they must use respiratory protection. Respirator with combination filter for particles and vapours (EN 371). Filter AX or environment-independent breathing apparatus.

**Hand protection**

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. The selection of the suitable gloves does not only depend on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. The exact break through time has to be requested from the protective glove manufacturer and must be observed. Glove material: Nitrile rubber, butyl rubber, fluorocarbon rubber. Penetration time (maximum wearing period): >480min

**Eye protection**

Tightly fitting safety glasses according to EN 166

**Other protection measures**

Protective clothing

**Hygiene measures**

Handle with good industrial hygiene and safety practice. General industrial hygiene measures. Do not breathe spray. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and after work. Wash contaminated clothing before reuse.

**Environmental exposure controls**

**General advice**

Do not flush into surface water or sanitary sewer. Take up leakage or spillage if possible without risk. If the product contaminates drains/ surface waters/ groundwater inform respective authorities.

**09. Physical and chemical properties**

<b>Appearance:</b>	aerosol
<b>Colour:</b>	brown
<b>Odour:</b>	characteristic
<b>Odour threshold:</b>	not determined
<b>Change in condition</b>	
<b>Melting point / melting range:</b>	not determined

**Boiling temperature [°C]:** not determined

**Flashpoint [°C]:** ca. -80

**Ignition temperature [°C]:** not determined

**pH value:** not applicable

**Flammability (gas):** not applicable

**Lower explosion limit [Vol%]:** 1.4

**Upper explosion limit [Vol%]:** 8.3

**Relative density [g/cm³]:** 0.837

**Vapour pressure [hPa]:** not determined

**Vapourisation rate:** not determined

**Vapour density:** not determined

**Solubility in water:** insoluble

**Partition coefficient n-octanol/water (log P O/W):** not determined

**Decomposition temperature:** not determined

**Viscosity:** not determined

**Organic solvents:** 60%

**Oxidising properties:**  
No information available.

**Explosive properties**  
The product is considered non-explosive; nevertheless explosive vapour/air mixtures can be generated.

**9.2 Other information**

No relevant information available.

**10. Stability and reactivity**

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

**10.3 Possibility of hazardous reactions**

No decomposition if stored and applied. Forms with air explosive mixtures which are heavier than air. Because of the high vapour pressure when heated risk of bursting of the vessels.

**10.4 Conditions to avoid**

Extremely flammable. Keep away from heat, flames and sparks. Fumes can form with air explosive mixtures that are heavier than air.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Possible in case of fire/high temperature the formation of hazardous/toxic fumes.

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**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

Tris(methylphenyl)phosphate

Acute oral LD50: 15750 mg/l rat  
 Acute dermal LD50: 3700 mg/l rat  
 Acute inhalation LC50 (4h): >2,775 mg/l rat

Hydrocarbons, C10-C13, n-alkanes isoalkanes, cycloalkanes, <2% aromatics

Acute oral LD50: >5000 mg/l rat  
 Acute dermal LD50: >5000 mg/l rabbit  
 Acute inhalation LC50 (4h): >4951 mg/l rat

Benzene, mono-C16-24-alkyl derivates, calcium salts

Acute oral LD50: >5000 mg/l rat  
 Acute dermal LD50: >2000 mg/l rat

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclic, aromatics (2-30%)

Acute oral LD50: >5000 mg/l rat  
 Acute dermal LD50: >1640 mg/l rabbit

Distillates (petroleum), hydrotreated heavy paraffinic

Acute oral LD50: >5000 mg/l rat  
 Acute dermal LD50: >1640 mg/l rabbit

2-Ethylhexanoic acid, compound with dodecylamine (1:1)

Acute oral LD50: >2000 mg/l rat

**Skin irritation**

May cause irritation.

**Eye irritation**

May cause irritation.

**Skin sensitization**

This product is not reported to have any skin sensitization effects.

**Mutagenicity**

No experimental information on genotoxicity in vivo available.

**Reproduction-Toxicity**

This product is classified as Repr. 2 (containing tris(methylphenyl)phosphate (Repr. 2)).

**Carcinogenicity**

No indications of carcinogenic effects are available from long-term trials.

**Specific target organ toxicity (single exposure)**

May cause drowsiness or dizziness. Irritation and dermatitis, weakness.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Experiences made from practice**

Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.

**Additional information**

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded. The product has not been tested. The information is derived from the properties of the individual components.

**12. Ecological information**

**12.1 Toxicity**

Tris(methylphenyl)phosphate

LC50 (96h): fish: 0.6 mg/l  
 EC50 (48h): Daphnia magna: 0.14 mg/l  
 ErC50: Desmodemus subspicatus: 0.4 mg/l

Hydrocarbons, C10-C13, n-alkanes isoalkanes, cycloalkanes, <2% aromatics

LC50 (96h): fish: >1000 mg/l  
 EC50 (48h): Daphnia magna: >1000 mg/l  
 ErC50: algae: >1000 mg/l

2-Ethylhexanoic acid, compound with dodecylamine (1:1)

EC50 (48h): Daphnia magna: >1 mg/l (0 – 10 mg/l)

**12.2 Persistence and degradability**

No relevant information available.

**12.3 Bioaccumulative potential**

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

**12.4 Mobility in soil**

No relevant information available.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Other adverse effects**

**General regulation**

Do not allow uncontrolled leakage of product in the environment. Product is not allowed to be discharged into aquatic environment. The ecotoxic effects of the product has not been tested. The information on this is given on the basis of details in the literature.

**13. Disposal considerations**

**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product (recommended)**

Disposal in accordance with the regulations of the local authorities.

**Waste code No. (recommended)** 160504\* (gases in pressure containers (including halons) containing dangerous substances)

**Recommendations for packaging**

Dispose of according to the local official regulations.

**Waste code No. (recommended)** 150110\* (packaging containing residues of or contaminated by dangerous substances)

**General information**

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

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**14. Transport information**

**14.1 UN number**  
ADR, IMDG, IATA 1950

**14.2 UN proper shipping name**  
Transport byland according to ADR/RID  
UN 1950 AEROSOLS

**Class** 2

**Classification code** 5F

**LQ, ADR** 1I

**Label**   
2.1

**Transport category** 2

**Tunnel restriction code** D

**IMDG**  
UN 1950 AEROSOLS

**EMS number:** F-D S-U

**Label**   
2.1

**LQ, [l/kg]:** 1I

**IATA**  
UN 1950 AEROSOLS, flammable

**Label:**   
2.1

**14.3 Transport hazard class(es)**  
See section 14.2

**14.4 Packing group** -

**14.5 Environmental hazards**  
Environmentally hazardous yes

**14.6 Special precautions for user**  
Relevant information under Section 6 to 8

**14.7 Transport in bulk according to Annex II of MARPOL 73/78**  
**And the IBC-Code:**  
Not applicable

**15. Regulatory information**

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

**Council Directive (2012/18/EC)**  
P3a FLAMMABLE AEROSOLS      Quantity 1      Quantity 2  
150 t (net)      500 t (net)

E2 hazardous to the Aquatic Environment in Category Chronic 2      200 t      500 t

**VOC standard**  
**VOC value** 532 g/L = 76%

**15.2 Chemical Safety Assessment**  
Chemical safety assessments for substances in this mixture were not carried out.

**16. Other information**

**16.1 Hazard statements:**

- EUH066: Repeated exposure may cause skin dryness or cracking.
- H220: Extremely flammable gas.
- 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.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

**16.2 Abbreviations and acronyms:**

- ADR: Accord européen relatif au transport international des marchandises dangereuses par route
- RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
- ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
- CAS: Chemical Abstract Service
- DNEL: Derived No Effect Level
- EC50: Median effective concentration
- EINECS: European Inventory of Existing Commercial Chemical Substances
- IATA: International Air Transport Association
- IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG: International Maritime Code for Dangerous Goods
- LC50: Lethal concentration, 50%
- LD50: Median lethal dose
- MARPOL: International Convention for the Prevention of Marine Pollution from Ships
- PBT: Persistent, bioaccumulative and toxic substance
- VOC: Volatile organic compounds
- VOCV: Swiss Ordinance on volatile organic compounds
- vPvB: very Persistent and very Bioaccumulative

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

Each user is responsible for the implementation of the national special regulations.  
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.  
Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.