

Safety Data Sheet

COOL-SHOT ULTRA PUSH & FILL



Safety Data Sheet dated 6/4/2020, version 1.0
This version cancels and substitutes any previous version

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

- 1.1. Product identifier
Mixture identification:
Trade name: COOL-SHOT ULTRA PUSH & FILL
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Additive restores efficiency for automotive air conditioning systems R134a and R1234yf
- 1.3. Details of the supplier of the safety data sheet
Company:
ERRECOM SPA
Via Industriale, 14
Corzano (BS) Italy
Tel. +39 030/9719096
Competent person responsible for the safety data sheet:
lab@errecom.it
- 1.4. Emergency telephone number
+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
Warning, Aerosols 3, Pressurized container: may burst if heated.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards
- 2.2. Label elements
Hazard pictograms:
None

Warning
Hazard statements:
H229 Pressurized container: may burst if heated.
H412 Harmful 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.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P501 Dispose of contents/container in accordance with applicable regulations.
- Special Provisions:
None
Special provisions according to Annex XVII of REACH and subsequent amendments:
None
- 2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards:

Safety Data Sheet

COOL-SHOT ULTRA PUSH & FILL



No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|-------------------------------|---|---|---|
| >= 0.1% - < 0.25% | phenol, isopropylated, phosphate (3:1) | CAS: 68937-41-7 EC: 273-066-3 | 3.7/2 Repr. 2 H361fd 3.9/2 STOT RE 2 H373 4.1/C1 Aquatic Chronic 1 H410 M=10. |
| >= 0.0001% - < 0.01% | naphthalene | Index number: 601-052-00-2 CAS: 91-20-3 EC: 202-049-5 REACH No.: 01-21195613 46-37-XXXX | 3.6/2 Carc. 2 H351 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410 3.1/4/Oral Acute Tox. 4 H302 |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

No information available.

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store away from direct sunlight.
 - Keep in a dry and well ventilated place.
 - Store between + 10 ° C / + 50 ° F and + 30 ° C / + 86 ° F.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - Keep away from oxidants.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - Information not available.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - naphthalene - CAS: 91-20-3
 - EU - TWA(8h): 50 mg/m³, 10 ppm
 - ACGIH - TWA(8h): 10 ppm - Notes: Skin, A3 - URT irr, cataracts, hemolytic anemia
 - DNEL Exposure Limit Values
 - phenol, isopropylated, phosphate (3:1) - CAS: 68937-41-7
 - Worker Professional: 200 mg/kg - Consumer: 100 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
 - Worker Professional: 20.1 mg/m³ - Consumer: 5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 16 mg/cm² - Consumer: 8 mg/cm² - Exposure: Human Dermal -
Frequency: Short Term, local effects
Worker Professional: 4.17 mg/kg - Consumer: 2.08 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects
Worker Professional: 0.29 mg/m³ - Consumer: 0.07 mg/m³ - Exposure: Human
Inhalation - Frequency: Long Term, systemic effects
Consumer: 50 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic
effects
Consumer: 0.04 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects

PNEC Exposure Limit Values

phenol, isopropylated, phosphate (3:1) - CAS: 68937-41-7

Target: Fresh Water - Value: 0.00029 mg/l

Target: Marine water - Value: 0.000029 mg/l

Target: Freshwater sediments - Value: 112 mg/kg

Target: Marine water sediments - Value: 0.0168 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

8.2. Exposure controls

Eye protection:

Tightly fitting safety goggles.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

CR (polychloroprene, chloroprene rubber).

NR (natural rubber, natural latex).

Material thickness: 0.4 mm minimum.

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------|
| Appearance and colour: | liquid violet |
| Odour: | characteristic |
| Odour threshold: | N.A. |
| pH: | N.A. |
| Melting point / freezing point: | N.A. |
| Initial boiling point and boiling range: | N.A. |
| Solid/gas flammability: | N.A. |
| Upper/lower flammability or explosive limits: | N.A. |
| Vapour density: | N.A. |
| Flash point: | N.A. |
| Evaporation rate: | N.A. |
| Vapour pressure: | N.A. |

| | |
|--|------------------------|
| Density: | 1.1 g/mL (+20°C/+68°F) |
| Solubility in water: | insoluble |
| Solubility in oil: | N.A. |
| Partition coefficient (n-octanol/water): | N.A. |
| Auto-ignition temperature: | N.A. |
| Decomposition temperature: | N.A. |
| Viscosity: | N.A. |
| Explosive properties: | N.A. |
| Oxidizing properties: | N.A. |
| 9.2. Other information | |
| Miscibility: | N.A. |
| Fat Solubility: | N.A. |
| Conductivity: | N.A. |
| Substance Groups relevant properties | N.A. |
| V.O.C. (w/w): | N.A. |

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
Strong oxidizing agents.
- 10.6. Hazardous decomposition products
No data available

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
COOL-SHOT ULTRA PUSH & FILL
 - a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
 - c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met
 - d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
 - e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
 - f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
 - g) reproductive toxicity
Not classified

- Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
 - i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
 - j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
phenol, isopropylated, phosphate (3:1) - CAS: 68937-41-7
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 200 mg/l
Test: LD50 - Route: Skin - Species: Rabbit > 10000 mg/kg
 - b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
 - c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Negative
 - i) STOT-repeated exposure:
Test: STOT - repeated exposure - Route: Oral Positive - Notes: Target Organs: adrenal gland, liver, reproductive organs.

SECTION 12: Ecological information

- 12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
COOL-SHOT ULTRA PUSH & FILL
The product is classified: Aquatic Chronic 3 - H412
phenol, isopropylated, phosphate (3:1) - CAS: 68937-41-7
 - a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1.6 mg/l - Duration h: 96 - Notes: Species: Oncorhynchus mykiss
Endpoint: LC50 - Species: Fish 10.8 mg/l - Duration h: 96 - Notes: Species: Pimephales promelas
Endpoint: EC50 - Species: Daphnia 2.44 mg/l - Duration h: 48 - Notes: Species: Daphnia magna
- 12.2. Persistence and degradability
phenol, isopropylated, phosphate (3:1) - CAS: 68937-41-7
Biodegradability: Non-readily biodegradable - Test: Biodegradation (%): - Duration: 28 d - %: 17.9
- 12.3. Bioaccumulative potential
N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods

Safety Data Sheet

COOL-SHOT ULTRA PUSH & FILL



Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number
 - ADR-UN number: 1950
 - IATA-Un number: 1950
 - IMDG-Un number: 1950
- 14.2. UN proper shipping name
 - ADR-Shipping Name: AEROSOLS, asphyxiant
 - IATA-Technical name: Aerosols, non-flammable
 - IMDG-Technical name: AEROSOLS
- 14.3. Transport hazard class(es)
 - ADR-Class: 2
 - IATA-Class: 2.2
 - IMDG-Class: 2.2
- 14.4. Packing group
- 14.5. Environmental hazards
 - Marine pollutant: No
- 14.6. Special precautions for user
 - ADR-Transport category (Tunnel restriction code): E
 - IATA-Passenger Aircraft: Y203
 - IATA-Cargo Aircraft: Y203
 - IMDG-Technical name: AEROSOLS
 - IMDG-EMS: F-D, S-U
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)
 - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 - Regulation (EU) n. 2016/918 (ATP 8 CLP)
 - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 - Regulation (EU) n. 2017/776 (ATP 10 CLP)
 - Regulation (EU) n. 2018/669 (ATP 11 CLP)
 - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
 - Restrictions related to the product:
 - Restriction 3
 - Restrictions related to the substances contained:
 - No restriction.
- Where applicable, refer to the following regulatory provisions :

Safety Data Sheet

COOL-SHOT ULTRA PUSH & FILL



Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H302 Harmful if swallowed.

| Hazard class and hazard category | Code | Description |
|----------------------------------|------------|--|
| Aerosols 3 | 2.3/3 | Aerosol, Category 3 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Carc. 2 | 3.6/2 | Carcinogenicity, Category 2 |
| Repr. 2 | 3.7/2 | Reproductive toxicity, Category 2 |
| STOT RE 2 | 3.9/2 | Specific target organ toxicity - repeated exposure, Category 2 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |
| Aquatic Chronic 1 | 4.1/C1 | Chronic (long term) aquatic hazard, category 1 |
| Aquatic Chronic 3 | 4.1/C3 | Chronic (long term) aquatic hazard, category 3 |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Aerosols 3, H229 | On basis of test data |
| Aquatic Chronic 3, H412 | Calculation method |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Safety Data Sheet

COOL-SHOT ULTRA PUSH & FILL



| | |
|-------------|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |