

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

1.1. Product identifier

Product code : P3 Pure Power Perc REACH N. 01-2119475329-28
Trades code : A13-000
Product line: Tintolav
Chemical Name: tetrachloroethylene CAS: 127-18-4 - EC No: 204-825-9 - Index No: 602-028-00-4 - REACH: 01-2119475329-28

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

Superstabilizzato for perchloroethylene dry cleaning machines
Sectors of use:
Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Tintolav s.r.l. - Via M. D' Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: info@tintolav.com - Sito internet: www.tintolav.com

Email tecnico competente: a.conedera@tintolav.com

National contact: Malta: Emergency Ambulance 112
Accident & Emergency Department 2545 4030

1.4. Emergency telephone number

The UK National Poisons Emergency number +44 (0)870 600 6266
London: Emergency 24 hour telephone +44 (0) 207188 0100

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

CAS 127-18-4 CEE 602-028-00-4 EINECS 204-825-9 REACH 01-2119475329-28

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS08, GHS09

Hazard Class and Category Code(s):
Carc. 2, Aquatic Chronic 2

Hazard statement Code(s):
H351 - Suspected of causing cancer.
H411 - Toxic to aquatic life with long lasting effects.

The product may pose a risk of carcinogenesis.
The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS08, GHS09 - Warning



Hazard statement Code(s):
H351 - Suspected of causing cancer.
H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:

Prevention

- P201 - Obtain special instructions before use.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P391 - Collect spillage.

Disposal

- P501 - Dispose of contents / container in accordance with local and national regulations.

Contains:

tetrachloroethylene

Content of VOC ready to use condition: 100,00 %

RESTRICTED TO PROFESSIONAL USERS

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

Lepomismacrochirus-d -0.00343 21 mg/l bioconcentration factor (BCF): 49

SECTION 3. Composition/information on ingredients

3.1 Substances

Refer to paragraph 16 for full text of hazard statements

| Substance | Concentration[w/w] | Classification | Index | CAS | EINECS | REACH |
|---------------------|---------------------|--|--------------|----------|-----------|----------------------|
| tetrachloroethylene | 100% | Carc. 2, H351; Aquatic Chronic 2, H411 1 1 ATE oral = 2.629,0 mg/kg ATE dermal = 5.000,0 mg/kg ATE inhal = 34.200,0mg/l/4 h | 602-028-00-4 | 127-18-4 | 204-825-9 | 01-2119475 329-28 |

| Substance | Concentration[w/w] | Classification | Index | CAS | EINECS | REACH |
|-----------|------------------------|----------------|-------|-----|--------|-------|
|-----------|------------------------|----------------|-------|-----|--------|-------|

3.2 Mixtures

Irrilevant

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

IF exposed or concerned: Get medical advice/attention.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:
Wear mask, gloves and protective clothing.
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Provision of sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.
If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.
Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:
Rapidly recover the product, wear a mask and protective clothing
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.
Prevent it from entering the sewer system.

6.3.2 For cleaning up:
To clean the floor and all objects contaminated by this material use absorbent powder for chlorinated organic solvents.
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/protective clothing/eye protection/face protection.
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with extreme caution.
Store in well ventilated and away from sources of heat.

Public domain (administration, education, entertainment, services, craftsmen):
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

tetrachloroethylene:

TLV: TWA 100 ppm 25 ppm as STEL A3 (approved for the animal carcinogen with unknown relevance to humans); BEI (ACGIH 2004) published.

MAK: skin absorption (H); Cancerogenicity: Class 3B; (DFG 2004).

- Substance: tetrachloroethylene

DNEL

Systemic effects Long term Workers inhalation = 138 (mg/m³)

Systemic effects Long term Workers dermal = 39,4 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,25 (mg/m³)

Systemic effects Long term Consumers dermal = 0,167 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 1,3 (mg/kg bw/day)

Systemic effects Short term Workers inhalation = 275 (mg/m³)

Systemic effects Short term Consumers inhalation = 1,38 (mg/m³)

Local effects Short term Workers inhalation = 275 (mg/m³)

Local effects Short term Consumers inhalation = 138 (mg/m³)

PNEC

Sweet water = 0,05 (mg/l)

sediment Sweet water = 0,9 (mg/kg/sediment)

Sea water = 0,005 (mg/l)

sediment Sea water = 0,09 (mg/kg/sediment)

intermittent emissions = 0,03 (mg/l)

STP = 11,2 (mg/l)

ground = 0,01 (mg/kg ground)

8.2. Exposure controls



Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

Protect your hands with Category II work gloves (Ref. 89/686 / EEC and EN 374) as PVC, nitrile, neoprene or equivalent

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:

Related to contained substances:

tetrachloroethylene:

Do not let this chemical contaminates the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical and chemical properties | Value | Determination method |
|--|---------------------------------|----------------------|
| Appearance | Liquid | |
| Colour | colorless | |
| Odour | characteristic | |
| Odour threshold | not determined | |
| pH | not determined | |
| Melting point/freezing point | not determined | |
| Initial boiling point and boiling range | not determined | |
| Flash point | nonflammable | ASTM D92 |
| Evaporation rate | irrelevant | |
| Flammability (solid, gas) | not determined | |
| Upper/lower flammability or explosive limits | not determined | |
| Vapour pressure | 25,3 hPa @ 25,0 °C | |
| Vapour density | not determined | |
| Relative density | 1,623 g/cm ³ @ 25 °C | |
| Solubility | not determined | |
| Water solubility | irrelevant | |
| Partition coefficient: n-octanol/water | not determined | |
| Auto-ignition temperature | not determined | |
| Decomposition temperature | not determined | |
| Viscosity | not determined | |
| Explosive properties | not explosive | |
| Oxidising properties | non-oxidizing | |

9.2. Other information

Content of VOC ready to use condition: 100,00 %

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with nitrides, caustic substances.

It can generate toxic gases to contact with mineral acids, aromatic and aliphatic amines, strong oxidants agents.

It can ignite in contact with oxidants mineral acids, elementary metals.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE oral = ∞

ATE dermal = ∞

ATE inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.

(b) skin corrosion/irritation: based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitisation: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: The product may pose a risk of carcinogenesis.

tetrachloroethylene: 2nd-group 2A: probably carcinogenic to humans (Tetrachloroethylene)

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: based on available data, the classification criteria are not met.

P3 Pure Power Perc:

LD50 (rat) Oral (mg/kg body weight) = 2629

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 34200

Related to contained substances:

tetrachloroethylene:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation and by ingestion.

INHALATION RISK: A harmful contamination of the air will be reached quite slowly due to evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is irritating to the eyes, the skin and the respiratory tract. If the liquid is swallowed, aspiration into the lungs can cause chemical Pneumonitis. The substance may cause effects on the central nervous system. High concentration exposure lead to unconsciousness.

Effects of REPEATED EXPOSURE or long-term repeated or prolonged Contact with skin may cause dermatitis. The substance may have effects on the liver and kidneys. This substance is probably carcinogenic to humans.

ACUTE HAZARDS/Symptoms INHALATION Vertigo. Drowsiness. Headaches. Nausea. Weakness. State of unconsciousness.

CUTE CUTE. Redness.

EYE Redness. Pain.

INGESTION abdominal pain. (See also inhaled).

N O T E depending on the degree of exposure, periodic medical examinations are indicated. The smell a warning too little exposure limit is exceeded. Adding a stabilizer or inhibitor can modify the toxicological properties of the substance, consult an expert.

LD50 (rat) Oral (mg/kg body weight) = 2629

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 34200

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

P3 Pure Power Perc:

C(E)L50 (mg/l) = 4,9

The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Lepomis macrochirus-d -0.00343 21 mg/l bioconcentration factor (BCF): 49

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

SECTION 14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 1897



If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 5 L per package 30 Kg

Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 L per package 20 Kg

14.2. UN proper shipping name

ADR/RID/IMDG: TETRACOROETILENE

ADR/RID/IMDG: TETRACHLOROETHYLENE

ICAO-IATA: TETRACHLOROETHYLENE

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 6.1

ADR/RID/IMDG/ICAO-IATA: Label : 6.1+Ambiente

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 L

IMDG - EmS : F-A, S-A

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk

SECTION 15. Regulatory information

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

German technical regulation to keep the air pure
Weight dimension (number 5.2.5. I): 95-100%

Pericolosit class for water
Class: Classification 3 according to VwVwS

Seveso category:
E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:
HP7 - Carcinogenic

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 6.3. Methods and material for containment and cleaning up, 8.1. Control parameters, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 14.2. UN proper shipping name

Description of the hazard statements exposed to point 3
H351 = Suspected of causing cancer .
H411 = Toxic to aquatic life with long lasting effects.

Main normative references:
Directive 1999/45/EC
Directive 2001/60/EC
Regulation 1272/2008/EC
Regulation 2010/453/EC

** The information contained herein is based on our knowledge at the date above.
Related solely to the product and do not constitute a guarantee of a particular quality.
It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.
This data sheet cancels and replaces any previous edition.