

SAFETY DATA SHEET

Date: October, 2011, version 1

Product:

POWER CLEAN 12

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Name of the product: **POWER CLEAN 12**
Application of the product: Degreaser and cleaner for various surfaces
Distributor: SIA "Viss visapkārt tīrs"
Distributor address: Ganību dambis 7a, Rīga, Latvia
Postal code: LV – 1045
Telephone: +371 67566306
Fax: +371 67566305
E-mail, web-site: www.vvt.lv; info@vvt.lv
Competent person: egils@vvt.lv
Emergency contact: State Fire and Rescue Service of Latvia: 112
State Toxicology Centre: 67042468
Medicine and Intoxication Information Centre: 67042473 (round the clock)

2. HAZARDS IDENTIFICATION:

Hazard class: Irritant.
Most important types of hazard: Irritating to eyes
Information given in the marking: See 15. p.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS/EINECS no.	Name of a substance	Concentration, %	Classification
68551-12-2/ 500-221-7	Alcohols, C12-16, ethoxylated	>1<10	Xn R22 R41
112-34-5/ 203-961-6	2-(2-butoxyethoxy)ethanol	>1<10	Xi R36
111-76-2/ 203-905-0	2-butoxyethanol	>1<10	Xn, R20/21/22, R36/38
10213-79-3/ 229-912-9	Sodium metasilicate pentahydrate	>1<10	C, R34, R37
2809-21-4/ 220-552-8	1-hydroxy ethylidene-1,1-diphosphonic acid	>0,1<1	Xi, R41

4. FIRST AID MEASURES:

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
Skin contact: Wash with water
If the product is swallowed: Seek medical advice immediately and show container or label
If the product is inhaled: Product is not volatile
First aid means, which have to be present at the workplace: Clean water.

5. FIRE-FIGHTING MEASURES:

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Suitable extinguishing media: Water, CO₂, foam, extinguishing media – powder.
 Forbidden to use: None
 Hazard by flammable product: None
 Special protection equipment for fire-fighters: Full protection clothing.

6. ACCIDENTAL RELEASE MEASURES:

Personnel security measures: Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Environment protection measures: Do not drain the product undiluted.
 Collection methods: Pick up with suitable absorbent material.
 Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE:

Measures to guarantee safety at work: Avoid contact with skin and eyes.
 Use appropriate protective clothing.
 Environment protection measures: Do not drain undiluted product.
 Safe storage conditions: Store the product in the closed warehouse. It is not allowed to store the packed product together with foodstuffs or animal feed. The storage must be equipped with forced draft ventilation, a water-pipe outlet and a hand washing appliance.
 Product's storage temperature: from plus 5°C to plus 30°C.
 Particular types of application: See product label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Limit-values for professional exposure: Product is not volatile
Individual protection:
 Respiratory protection: Not necessary.
 Hands protection: Use protective gloves.
 Eyes protection: Avoid contact with eyes.
 Environment protection: Do not drain undiluted product.
 Hygiene measures at work: Follow conventional hygiene measures when working with chemical products.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Aggregative state: Clear liquid
 Colour: Blue
 pH: ~ 12.5
 Melting point: No data
 Boiling point: No data
 Flash point: Does not flame
 Combustibility: Does not burn
 Components that may explode: None
 Oxidizing/reducing properties: No data
 Vapor pressure: The product is not evaporable
 Relative density: ~1.020g/cm³
 Solubility in water: Unlimited
 Solubility in grease: No data
 Water/n-octanol degradation coefficient: No data

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10. STABILITY AND REACTIVITY:

Conditions to be avoided: None

Materials or products to be avoided: None

Hazardous decomposition products: Stable product in normal conditions

11. TOXICOLOGICAL INFORMATION:

Types of effect:

Eyes contact: Irritating to eyes

Skin contact: -

Sensibility: -

Toxicity: The toxicity of the product's components is as follows:
Alcohols, C12-16, ethoxylated: LD50 (oral, rats) 200-2000mg/kg
2-(2-butoxyethoxy)ethanol: LD50 (oral, rats) >2000mg/kg
2-butoxyethanol: LD50 (oral, rats) 200-2000mg/kg

12. ECOLOGICAL INFORMATION:

Ecotoxicity of the product components: Alcohols, C12-16, ethoxylated: LC50, (96 h) fish 1-10 mg/l;
EC50 (48 h) daphnia 1-10 mg/l
2-(2-butoxyethoxy)ethanol: LC50, (96 h) fish >100mg/l;
EC50 (48 h) daphnia >100mg/l
2-butoxyethanol: LC50, (96 h) fish >100mg/l;
EC50 (48 h) daphnia >100mg/l

Mobility of the product: No data

Biodegradability of the product components: >70% DOC, 28 days, Modif. OECD screening test (OECD 301E).

Bioaccumulation of the product components: Alcohols, C12-16, ethoxylated: easily degrades

Other negative impact on the environment: None

13. DISPOSAL CONSIDERATIONS:

Residuals of the product: All disposal of product should comply with local, national or EC regulations. Further information can be obtained from the Environment department.
The product must not be discharged directly into drains or waterways without treatment.

14. TRANSPORT INFORMATION:

To be transported in closed and clean vehicles, protecting the product from environmental effects in accordance with the cargo transportation regulations that apply to the corresponding transportation means. Must not be transported in specialized foodstuffs transportation means.

15. REGULATORY INFORMATION

Marking: According to TN 99-2010

Hazard identification Xi irritant
R36 irritating to eyes

Safety phrases S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Laws and regulations: Cabinet Regulations No 107 of the Republic of Latvia: "Order of classification, labelling and packaging of chemical substances and chemical products".

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Guide to the compilation of Safety Data Sheets, Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council
LVS EN ISO 780:1999, "Packaging – Pictorial marking for handling of goods."
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents.
TN 99 – 2010

16. OTHER INFORMATION:

LD50 – amount of chemical substance (mg/kg of live weight), which over a certain time period after its admittance into live organisms causes the death of 50% of the live organisms that have been subject to the effects of the corresponding chemical substance.

LC50 – concentration of a chemical substance in the air or in the water (mg per liter of inhaled air), which over a certain time period after its admittance into live organisms causes the death of 50% of the live organisms that have been subject to the effects of the corresponding chemical substance.

CAS number – Chemical Abstracts Service Registry Number Registry number.

LVS – Latvian National Standard.

ISO – International Organization for Standardization.

TWA - Time Weighted Average – The average concentration for an 8 hours working day and a 40 hours working week, to which employees can be exposed on a daily basis without undesirable effects.

OECD – EDSO Organization for Economic Cooperation and Development.

Xn – harmful

Xi - irritant

C - corrosive

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R34 - Causes burns

R37 - Kairina elpošanas sistēmu -

R36/38 - Irritating to eyes and skin

R41 - Risk of serious damage to eyes

Other data:

The information provided in this security data sheet is based on the data supplied by the manufacturer of the product, which are to be deemed correct only if using the product for its intended purpose. It is the user's own responsibility to evaluate the herein provided information and its applicability to particular product usage conditions, and to carry out all the required precautionary safety measures. The company is not liable for the conformity and applicability of this information with regard to other user-specific requirements of the user.