

SAFETY DATA SHEET

Date: October, 2012, version 2

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:

2.1. Classification of the mixture: Xi Irritant.
according to Directive R36 Irritating to eyes
1999/45/EK [DSD]:
2.2. Label elements: according to S26 In case of contact with eyes, rinse immediately with plenty of water
Directive 1999/45/EK [DSD]: and seek medical advice

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS/EC no.	Name of a substance	Concentration, %	Classification according to Directive 67/548/EEK	Classification according to Regulation 1272/2008 EC
68551-12-2/ 500-221-7	Alcohols, C12-16, ethoxylated	>1<10	Xn R22 R41	H302 Acute tox.4 H318 Eye dam. 1
112-34-5/ 203-961-6	2-(2-butoxyethoxy)ethanol	>1<10	Xi R36	H319 Eye irrit.2
111-76-2/ 203-905-0	2-butoxyethanol	>1<10	Xn, R20/21/22, R36/38	H314 skin corr.1B H290 Met.corr. 1 H335 STOT SE3
10213-79-3/ 229-912-9	Sodium metasilicate pentahydrate	>1<10	C, R34, R37	H302 Acute tox.4 H318 Eye dam. 1
2809-21-4/ 220-552-8	1-hydroxy ethylidene-1,1-diphosphonic acid	>0,1<1	Xi, R41	

Additional information for the wording of the listed hazardous phrases refer to section 16.

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: Clean water.

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workplace:

5. FIRE-FIGHTING MEASURES:

Suitable extinguishing media:	Water, CO ₂ , 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/cm ³
Solubility in water:	Unlimited

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Solubility in grease: No data
Water/n-octanol degradation coefficient: No data

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
Sodium metasilicate pentahydrate: LD50 (oral, rats): 1150-2100mg/kg;
1-hydroxy ethylidene-1,1-diphosphonic acid: LD50 (oral, rats) 24001mg/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
Sodium metasilicate pentahydrate: LC50 (96h, zivis): 210-2320mg/l
1-hydroxy ethylidene-1,1-diphosphonic acid: EC50 (48h), daphnia 527mg/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

Laws and regulations: Cabinet Regulations No 107 of the Republic of Latvia: "Order of classification,

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labelling and packaging of chemical substances and chemical products".
Regulation (EC) No 648/2004 of the European Parliament and of the Council on
detergents.
Regulation (EC) No 1907/2006
Regulation (EC) No 453/2010
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.

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.