

SAFETY DATA SHEET

Date: December, 2011, version 2

Product: **DW_SHINE**

1. PREPARATION AND COMPANY IDENTIFICATION

Name of the product	DW_SHINE
Application of the product	Rinse aid for automatic dishwashing systems.
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:

No particular hazards known.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS/EINECS no.	Substance name	Concentration, %	Classification
111-76-2/ 203-905-0	2-butoxyethanol	>1<10	Xn, R20/21/22, R36/38
67-63-0/ 200-662-2	Propan -2-ol	>1<10	F, R11 Xi, R36, R67

4. FIRST AID MEASURES:

Eye contact:	In case of contact with eyes, rinse with water and seek medical advice if necessary
Skin contact:	Wash with water.
If the product is swallowed:	If swallowed, seek medical advice immediately and show container or label.
If the product is inhaled:	Is not related to this case – the product is not evaporable.
First aid means, which have to be present at the workplace:	Special means are not necessary.

5. FIRE-FIGHTING MEASURES:

Suitable extinguishing media:	Water, CO ₂ , foam, extinguishing media – powder
Forbidden to use:	-
Hazard by flammable product:	Does not burn
Special protection equipment for fire-fighters:	Protective clothes

6. ACCIDENTAL RELEASE MEASURES:

Personnel security measures:	To consider ordinary hygiene requirements.
Environment protection measures:	Do not drain a big amount of the product undiluted.
Collection methods:	Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE:

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Handling	Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep container tightly closed in well-ventilated place. Storage temperature +5°C to + 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Limit-values for professional exposure: The product is not evaporable.

Individual protection:

Respiratory protection:	Is not necessary.
Respiratory protection:	Rubber gloves are recommended
Eyes protection:	Avoid contact with eyes
Environment protection:	Do not drain the product undiluted.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Clear liquid
Colour:	Blue
Product pH	~3.5
Melting point:	-
Boiling point:	~100°C
Flash point:	Does not flame
Combustibility:	Does not burn
Self-ignition temperature:	Does not burn
Density:	~1,000g/cm ³
Solubility in water:	Fully soluble

10. STABILITY AND REACTIVITY:

Conditions to be avoided:	None
Materials or products to be avoided:	None
Hazardous decomposition products:	None

11. TOXICOLOGICAL INFORMATION:

Eyes contact:	None
Skin contact:	None
Sensibility:	None
Toxicity	The toxicity of the substances within the product is as follows: 2-butoxyethanol: LD50 (oral, rats) 200-2000mg/kg Propan-2-ol: LD50 (oral, rats) ~ 5500mg/kg

12. ECOLOGICAL INFORMATION:

Eco toxicity of the product components:	2-butoxyethanol: LC50, (96 h) fish >100mg/l; Propan-2-ol: LC50 (fish, 96h): ~9600mg/l;
Mobility of the product components:	No data
Biodegradability of the product components:	Easy biodegradable.
Bioaccumulation of the product components:	Easy biodegradable.

13. DISPOSAL CONSIDERATIONS:

Must be dumped or incinerated in accordance with local regulations.

14. TRANSPORT INFORMATION:

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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

Transport marking	Accordinging with standard TN 99 – 2010
Hazard classification:	Not hazardous
Safety information:	Is not necessary.
Laws and regulations:	Cabinet Regulations No 107 of the Republic of Latvia: “Order of classification, labeling and packaging of chemical substances and chemical products”. Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents. Guide to the compilation of Safety Data Sheets, Regulation (EC) No 1907/2006 of the European Parliament and of the Council, REACH Directive 1999/45/EK LVS EN ISO 780:1999, “Packaging – Pictorial marking for handling of goods.” 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 litre 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.

EC50 – concentration of a substance, under which the tested effect is observed within 50% of the test organisms.

BSB28/CSB – Biodegradation Test Method.

OECD – Organization for Economic Cooperation and Development.

DOC – Dissolved organic carbon (Biodegradation Test Method).

CAS number – Chemical Abstracts Service Registry Number Registry number.

EC number - EINECS, European inventory of existing chemical substances.

LVS – Latvian National Standard.

ISO – International Organization for Standardization.

Explanation of the hazard marking:

Xn – Harmful

Xi - Irritant

F - Flammable

R11 - Highly flammable

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

R36/38 - Irritating to eyes and skin

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.