

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. Product identifier:
Multimedia Cleaner (TFT/LCD/LED Screens & Plastic Surfaces)
- 1.2. Relevant identified uses of the mixture and uses advised against:
Application: Lotion for cleaning of multimedia devices (TFT/LCD/LED Screens & Plastic Surfaces).
For industrial, consumer and professional use.
- 1.3. Details of the supplier of the safety data sheet:
2direct GmbH
Langenstück 5
D-58579 Schalksmühle
Tel: D +49 (0) 2351 / 66887-0
Fax: D +49 (0) 2351 / 66887-29
- 1.3.1. E-mail: info@2direct.de
- 1.4. Emergency telephone number: **Poison Control Center Mainz**
Phone +49 (0) 6131 19240

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:
Classification according to Regulation 1272/2008/EC (CLP):
Skin Sens. 1 – H317

Warning H statements:
H317 – May cause an allergic skin reaction.

Classification according to Directive 1999/45/EC:
Xi; Irritant – R43

R phrases referring to the hazards/risks:
R43 - May cause sensitisation by skin contact.

- 2.2. Label elements:

Components which define the hazards: Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1)



Warning H statements:
H317 – May cause an allergic skin reaction.

Precautionary P statements:
P102 – Keep out of reach of children.
P261 – Avoid breathing vapours/spray.

P280 – Wear protective gloves.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/ attention.

P501 – Dispose of contents/container in accordance with local regulations.

In case of retail trade must be indicated on the label:

Components in accordance with the Regulation (EC) No. 648/2004 on detergents:

Perfumes

Bronopol

2.3. Other hazards:

Product is not considered harmful if used properly.

Prolonged contact with eyes might cause irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Not applicable.

3.2. Mixture:

Description	CAS number	EC number	REACH reg. nr.	Conc. (%)	Classification				
					67/548/EEC		1272/2008/EC (CLP)		
					Hazard symbol	R phrase	Hazard pict.	Hazard cat.	H phrase
Hexyl cinnamic aldehyde*	101-86-0	202-983-3	-	< 0,01	Xi	43	GHS07 Wng	Skin. Sens. 1	H317
Orange oil guinea*	8028-48-6	232-433-8	-	< 0,01	Xn	65	GHS08 Danger	Asp. Tox. 1	H304
Lavandine oil grosso*	-	-	-	< 0,01	Xn	65	GHS08 Danger	Asp. Tox. 1	H304
Orange oil terpenes, natural*	8028-48-6	232-433-8	-	< 0,01	Xn, N	38-50/53-65	GHS07 GHS08 GHS09 Danger	Skin Irrit. 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 1	H315 H304 H400 H410
Ylanate*	32210-23-4	250-954-9	-	< 0,01	N	51/53	GHS09	Aquatic Chronic 2	H411
Lemon oil terpenes, natural*	84929-31-7	284-515-8	-	< 0,01	Xn, N	38-50/53-65	GHS07 GHS08 GHS09 Danger	Skin Irrit. 2 Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 1	H315 H304 H400 H410
Beta Pinene*	127-91-3	204-872-5	-	< 0,01	Xn, N	50/53-65	GHS08 GHS09 Danger	Asp. Tox. 1 Aquatic Acute 1 Aquatic Chronic 1	H304 H400 H410
Ysamber K*	154171-77-4	415-460-1	-	< 0,01	N	51/53	GHS09	Aquatic Chronic 2	H411
Amyl Salicylate*	87-20-7	218-080-2	-	< 0,01	N	51/53	GHS09	Aquatic Chronic 2	H411
Citronellol*	106-22-9	203-375-0	-	< 0,01	Xi, N	38-43-51/53	GHS07 GHS09 Wng	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2	H315 H317 H411

Sandranol*	28219-61-6	248-908-8	-	< 0,01	Xi, N	38-50/53	GHS07 GHS09 Wng	Skin Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H315 H400 H410
Bronopol	52-51-7	200-143-0	-	0,02-0,04	Xn, N	21/22-37/38-41-50	GHS05 GHS07 GHS09 Danger	Acute Tox. 4 Acute Tox. 4 STOT SE 3 Skin Irrit. 2 Eye Dam. 1 Aquatic Acute 1 M-factor=10	H312 H302 H335 H315 H318 H400
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1)	55965-84-9	247-500-7 220-239-6	-	< 0,01	T; N	23/24/25-34-43-50/53	GHS06 GHS05 GHS09 Danger	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H331 H311 H301 H314 H317 H400 H410
Poly(oxy-1,2-ethanediyl), α-sulpho-ω-(dodecyloxy, sodium salt)*	9004-82-4	polymer	-	< 0,01	Xi	36/38	GHS07 Wng	Skin Irrit. 2 Eye Irrit. 2	H315 H319
C12-14 Alcohols, ethoxylated*	68439-50-9	-	-	< 0,01	Xi, N	41-50	GHS05 GHS09 Danger	Eye Dam. 1 Aquatic Acute 1	H318 H400

*: Substance classified by the manufacturer or substance which has no obligatory classification according to the EU regulations.

For the full text of R and H phrases: see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General: If illness occurs or overexposure is suspected, medical attention is recommended.

IN CASE OF INGESTION:

Measures:

- Rinse mouth and drink plenty of water.

IN CASE OF INHALATION:

Measures:

- No damage to health expected.

IN CASE OF SKIN CONTACT:

Measures:

- Remove the contaminated clothes.
- Wash the skin surface with plenty of water and soap (for 15 minutes).
- In case of complaints, obtain medical help.

IN CASE OF EYE CONTACT:

Measures:

- Immediately flush with water.

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:

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

No data available.

5.1.2. Unsuitable extinguishing media:

No data available.

5.2. Special hazards arising from the substance or mixture:

The product is not classified as flammable.

5.3. Advice for firefighters:

No special precautions required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

No special precautions required.

6.1.2. For emergency responders:

No special precautions required.

6.2. Environmental precautions:

No special precautions required.

6.3. Methods and material for containment and cleaning up:

Absorb spilled fluid with inert material (e.g. dry tissues or dry paper).

Clean the place with appropriate cleaning media (e.g. water).

6.4. Reference to other sections:

For further and detailed information see section 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Observe conventional hygiene precautions.

Technical measures:

No special measures required.

Precautions against fire and explosion:

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures and storage condition:

Store at normal room temperature and normal room conditions.

Incompatible materials: none known.

Packaging material: no special prescriptions.

7.3. Specific end use(s):

No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure limit values:

The components of the mixture are not regulated with exposure limit value.

DNEL		Routes of exposure	Exposure frequency:	Remarks:
Worker	Consumer			
no data available	no data available	Dermal	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Inhalative	Short term (acute) Long term (repeated)	no data available
no data available	no data available	Oral	Short term (acute) Long term (repeated)	no data available

PNEC			Exposure frequency:	Remarks:
Water	Soil	Air		
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available
no data available	no data available	no data available	Short term (single use) Long term (continuous)	no data available

- 8.2. Exposure controls:
In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.
- 8.2.1 Appropriate engineering controls
In pursuance of work is proper foresight needed to avoid spilling/leaking onto clothes and floors and to avoid contact with eyes and skin.
Special protective measures are normally not necessary.
Observe general hygienic measure.
- 8.2.2. Individual protection measures, such as personal protective equipment:
1. Eye/face protection: not necessary.
 2. Skin protection:
 - a. Hand protection: use appropriate protective gloves (EN 374).
 - b. Other: not necessary.
 3. Respiratory protection: not necessary.
 4. Thermal hazard: none known.
- 8.2.3. Environmental exposure controls:
No special measures required.
- The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions an expert's advice should be sought out before deciding upon further protective measures.**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Test method:	Remarks:
1. Appearance:		blue liquid
2. Odour:		cool ice
3. Odour threshold:		no data available
4. pH value:		approx. 7
5. Melting point/ freezing point:		no data available
6. Initial boiling point/boiling range:		no data available
7. Flash point:		> 100 °C
8. Evaporation rate:		no data available
9. Flammability:		no data available
10. Upper/lower flammability or explosive limits:		no data available
11. Vapour pressure:		no data available
12 Vapour density:		no data available
13. Relative density:		no data available
14. Solubility(ies):		water-soluble
15. Partition coefficient: n-octanol/water:		no data available
16. Self-ignition temperature:		> 100 °C
17. Degradation temperature:		no data available
18. Viscosity:		no data available
19. Explosive properties:		no data available
20. Oxidizing properties:		no data available

9.2. Other information:

No data available.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:
Inert for most materials.
- 10.2. Chemical stability:
Stable, under conditions mentioned under section 7.
- 10.3. Possibility of hazardous reactions:
None known.
- 10.4. Conditions to avoid:
None known.
- 10.5. Incompatible materials:
None known.
- 10.6. Hazardous decomposition products:

None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity: none known.

Skin corrosion/irritation: none known.

Serious eye damage/eye irritation: none known.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: none known.

Carcinogenicity: none known.

Reproductive toxicity: none known.

STOT-single exposure: none known.

STOT-repeated exposure: none known.

Aspiration hazard: none known.

11.1.1. For substances subject to registration, brief summaries of the information derived from the test conducted:

No data available.

11.1.2. Relevant toxicological properties of the hazardous substances:

No data available.

11.1.3. Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

The product itself is not considered harmful to the health, because irritating and unhealthy ingredients are of low concentration. Eye contact might cause irritation.

Long term effects: none.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

May cause an allergic skin reaction.

11.1.6. Interactive effects:

No data available.

11.1.7. Absence of specific data:

No information.

11.1.8. Other information:

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

This product contains chemical organic compounds.

Do not dispose the liquid into the environment.

12.2. Persistence and degradability:

Degradability time and ecotoxicity is not known.

12.3. Bioaccumulation potential:

No data available.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

No data available.

12.6. Other adverse effects:

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

No special recommendation from the manufacturer.

Absorb lotion with absorbing material and dispose as normal waste according to agreement with local authorities.

For this product no waste disposal key according the European Waste Catalogue (EWC) can be determined, as only the purpose of application defined by the user enables an allocation. The European waste code number has to be determined after a discussion with a specialist dealing with waste disposal.

13.1.2. Information regarding the disposal of the packaging:

Dispose according to the relevant regulations.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

None known.

13.1.4. Sewage disposal:

None known.

- 13.1.5. Special precautions for any recommended waste treatment:
No data available.

SECTION 14: TRANSPORT INFORMATION

Not dangerous good in sense of the transport regulations.

- 14.1. UN Number:
None.
- 14.2. UN proper shipping name:
None.
- 14.3. Transport hazard class(es):
None.
- 14.4. Packaging group:
None.
- 14.5. Environmental hazard:
No relevant information available.
- 14.6. Special precautions for user:
No special precautions. Not classified as dangerous goods.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

- 15.2. Chemical safety assessment: no information available.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:

The safety data sheet has been revised according to Regulation 453/2010/EU (Section 1-16).

The classification of the components and the mixture have been amended according to Regulation 1272/2008/EC (CLP) and its amendments.

Full text of the abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenicity, mutagenicity and toxicity for reproduction. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent, Very Bioaccumulative. n.d.: not defined. n.a.: not applicable.

Key literature references and sources for data: no data available.

Methods used for the classification according to Regulation 1272/2008/EC:

Skin Sens. 1, H317

Based on calculation method

Relevant R-Phrases (number and full text) of Section 2 and 3:

R 21/22 - Harmful in contact with skin and if swallowed.

R 23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R 34 - Causes burns.

R 36/38 - Irritating to eyes and skin.

R 37/38 - Irritating to respiratory system and skin.

R 38 - Irritating to skin.

R 41 - Risk of serious damage to eyes.

R 43 - May cause sensitisation by skin contact.

R 50 - Very toxic to aquatic organisms.

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 - Harmful: may cause lung damage if swallowed.

Relevant H-Phrases (number and full text) of Section 2 and 3:

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H311 - Toxic in contact with skin.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H411 - Toxic to aquatic life with long lasting effects.

Training advice: no data available.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations. The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required. Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product. It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by: ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:
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Download of safety data sheet:

