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Safety data sheet

according to 1907/2006/EC, Article 31 Printing date 25.01.2017 Version number 1 Revision: 25.01.2017 1 Identification of the substance/mixture and of the company/undertaking · Product identifier Trade name: Ti-Nanoxide BL150/SP · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the preparation : Preparation · Details of the supplier of the safety data sheet Manufacturer/Supplier: SOLARONIX SA Rue de l'Ouriette 129, CH-1170 Aubonne, Switzerland info@solaronix.com T +41 21 821 22 80 www.solaronix.com F +41 21 821 22 89 info@solaronix.com Emergency telephone number: France (ORFILA 24h/24) - Tel : +33 (0)1 45 42 59 59 Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel : 112 2 Hazards identification · Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 : GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC : Xi; Irritant R38: Irritating to skin. Information concerning particular hazards for human and environment: The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU" . Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. · Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS07

· Signal word Warning

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· Hazard statements

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H315 Causes sl	kin irritation.			
H319 Causes se	erious eye irritation.			
· Precautionary statements				
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P264	Wash thoroughly after handling.			
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact				
	lenses, if present and easy to do. Continue rinsing.			
P321	Specific treatment (see on this label).			
P362	Take off contaminated clothing and wash before reuse.			
P332+P313	If skin irritation occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of soap and water.			
 Other hazards 				
 Results of PBT 	and vPvB assessment			
· PBT: Not applicable.				
vPvB: Not applicable.				

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture: consisting of the following components.

CAS: 8000-41-7	terpinéol (mélange d'isomères)	25-50%
	Irrit. 2, H315	
CAS: 107-21-1	ethanediol	10-25%
EINECS: 203-473-3	🗙 Xn R22	
Reg.nr.: 01-2119456816-28	🗘 Acute Tox. 4, H302	
CAS: 77-92-9	citric acid	2.5-10%
EINECS: 201-069-1	🗙 Xi R36	
	🕕 Eye Irrit. 2, H319	
CAS: 546-68-9	titanium tetraisopropanolate	2.5-10%
EINECS: 208-909-6	🗙 Xi R36	
	R10	
	🚸 Flam. Liq. 3, H226; 🚸 Eye Irrit. 2, H319	

4 First aid measures

· Description of first aid measures

· After excessive inhalation:

In case of unconsciousness place patient in a stable laying down side position for transportation.

- \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult a doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed :** No further relevant information available.

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• Indication of any immediate medical attention and special treatment needed : No further relevant information available.

5 Firefighting measures

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. • Special hazards arising from the substance or mixture :
- No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures : Not required.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- Reference to other sections :
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protective equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling:

• Precautions for safe handling : No special precautions are necessary if used correctly.

- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) : No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see section 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
107-21-1 ethanedio	l (10-25%)	
WEL (Great Britain)	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour	
IOELV (EU)	Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin	
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• Additional information: As a basis for the production of this document, the most current valid lists were used.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep
- away from food, beverages and petfood. Immediately
- remove all soiled and contaminated clothing Wash hands
- before breaks and at the end of work.
- Avoid all contact with the skin.
- Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Gloves material :

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.

· Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

Appearance:	Linuid
Form: Colour:	Liquid
Odour:	According to product specification Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.



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Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	0.1 hPa
Density:	Not determined.
Relative density :	Not determined.
Vapour density :	Not determined.
Evaporation rate :	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Segregation coefficient (n-octanol/	water): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	0.00 %
Other information :	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions : No dangerous reactions known.
- Conditions to avoid : No further relevant information available.
- \cdot Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:
- 107-21-1 ethanediol
 - Oral LD50 5840 mg/kg (rat)
 - Dermal LD50 9530 mg/kg (rabbit)
- Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eyes: No irritant effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following hasards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Irritant

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability : No further relevant information available.
- · Behaviour in environmental systems:
- **Bioaccumulative potential :** No further relevant information available.
- · Mobility in soil : No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- Other adverse effects : No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation :

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, ADN, IMDG, IATA	Not classified as hazardous for transport
UN proper shipping name	
ADR, ADN, IMDG, IATA	Not classified as hazardous for transport
Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Not classified as hazardous for transport
Packing group	
ADR, IMDG, IATA	Not classified as hazardous for transport
Environmental hazards:	
Marine pollutant:	No



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· Special precautions for user

Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation":

15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee
for any specific product features and shall not establish a legally valid contractual relationship.
Relevant phrases
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
R10 Flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
· Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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