

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

PRISMASTAR SX-5321

Version 3.0

Revision Date 02.01.2024

Print Date 03.01.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : PRISMASTAR SX-5321
Material number : 052283LS0

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number**NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification**GHS Classification**

: Flammable liquids, Category 4, H227
Acute toxicity, Category 4, Oral, H302
Acute toxicity, Category 3, Inhalation, H331

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Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 2A, H319

GHS-Labelling

Symbol(s)

:



Signal word

:

Danger

Hazard statements

:

H227: Combustible liquid.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.

Precautionary statements

:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P316 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.

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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Identification
2-butoxyethanol

CAS-No.
111-76-2

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
2-butoxyethanol	111-76-2 203-905-0	Flam. Liq.;4;H227 Acute Tox.;4;H302 Acute Tox.;3;H331 ;2;H315 ;2A;H319	50 - 100
propane-1,2-diol	57-55-6 200-338-0	Acute Tox.;5;H313	20 - 25
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10

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Aziridine, homopolymer	9002-98-6	Acute Tox.;4;H302 ;2A;H319 Skin Sens.;1;H317 Aquatic Chronic;2;H411	0,25 - 1
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For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General advice	: Move the victim to fresh air. Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	: Call a physician or poison control centre immediately. Remove to fresh air. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

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4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, Special powder against metal fire
Carbon dioxide (CO₂)

Unsuitable extinguishing media : ABC powder, Carbon dioxide (CO₂), Water, Foam
High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed

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containers.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

General advice : The product should not be allowed to enter drains, water
courses or the soil.
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

This information is not available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Contain spillage, and then collect with non-combustible
absorbent material, (e.g. sand, earth, diatomaceous earth,
vermiculite) and place in container for disposal according to
local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

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- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.
- Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Protect from humidity and water.
- Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidizing agents and strongly acid or alkaline materials. Never allow product to get in contact with water during storage. Keep away from

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oxidizing agents, strongly alkaline and strongly acid materials
in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Germany:**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
2-butoxyethanol	111-76-2	STEL	50 ppm 246 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
2-butoxyethanol	111-76-2	AGW	10 ppm 49 mg/m ³	2019-03-29	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Skin absorptionWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 Exposure controls**Personal protective equipment**

- Eye protection : Goggles
: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.
: In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

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General advice : The product should not be allowed to enter drains, water courses or the soil.
: Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : liquid
Colour : silver
Odour : characteristic
pH : 6 - 8, 100 %

Melting point/range : Not applicable
Boiling point/boiling range : 171 °C
Flash point : 65 °C

Bulk density : No data available
Flammability (solid, gas) : No data available
Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Density : 0,9 - 1,0 g/cm3
Solubility(ies)
Water solubility : insoluble

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Miscibility with water	: partly miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoidConditions to avoid : Do not allow evaporation to dryness.
Heat, flames and sparks.**10.5 Incompatible materials**

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Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****2-butoxyethanol :**

Acute oral toxicity : Acute toxicity estimate : 1 200 mg/kg
Method: Expert judgement

Acute inhalation toxicity : Acute toxicity estimate : 3 mg/l
Test atmosphere: vapour
Method: Expert judgement

propane-1,2-diol :

Acute oral toxicity : LD50 Rat: > 22 000 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 2 000 mg/kg

Aziridine, homopolymer :

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Acute oral toxicity : The component/mixture is moderately toxic after single
ingestion.

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

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No data available

Aspiration toxicity

No data available

Further information**Product**

No data available


SECTION 12: Ecological information**12.1 Toxicity****Components:****propane-1,2-diol (57-55-6) :**Toxicity to daphnia and other : (Daphnia magna (Water flea)): > 10 000 mg/l
aquatic invertebrates**Aziridine, homopolymer (9002-98-6) :****Ecotoxicology Assessment**Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.
hazard**12.2 Persistence and degradability**

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

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No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological : No data available
information

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information**14.1 UN number**

ADR	: 2810
TDG	: 2810
CFR	: 2810

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IMDG : 2810**IATA** : 2810**14.2 Proper shipping name****ADR** : TOXIC LIQUID, ORGANIC, N.O.S.
(2-Butoxy-ethanol)**TDG** : TOXIC LIQUID, ORGANIC, N.O.S.
(2-Butoxy-ethanol)**CFR** : TOXIC, LIQUIDS, ORGANIC, N.O.S.
(2-Butoxy-ethanol)**IMDG** : TOXIC LIQUID, ORGANIC, N.O.S.
(2-Butoxy-ethanol)**IATA** : TOXIC LIQUID, ORGANIC, N.O.S.
(2-Butoxy-ethanol)**14.3 Transport hazard class****ADR** : 6.1**TDG** : 6.1**CFR** : 6.1**IMDG** : 6.1**IATA** : 6.1**14.4 Packing group****ADR**

Packaging group : III

Classification Code : T1

Hazard Identification Number : 60

Labels : 6.1

Tunnel restriction code : (E)

TDG

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Packaging group : III
Labels : 6.1

CFR

Packaging group : III
Labels : 6.1

IMDG

Packaging group : III
Labels : 6.1
EmS Code : F-A, S-A

IATA

Packing instruction (cargo aircraft) : 663
Packing instruction (passenger aircraft) : 655
Packing instruction (LQ) : Y642
Packaging group : III
Labels : 6.1

14.5 Environmental hazards**14.6 Special precautions for user****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No data available

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (2-butoxyethanol) (aluminium powder (stabilised)) (Aziridine, homopolymer)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information**Full text of H-Statements**

H227	: Combustible liquid.
H228	: Flammable solid.
H302	: Harmful if swallowed.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.

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H331 : Toxic if inhaled.
H411 : Toxic to aquatic life with long lasting effects.

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