

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 1/7

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1-1. Product Name : Nano Vision sachet B

1-2. Information of a Manufacturing Company

1-2-1. Company Name : Nanoprotex (Canada) Inc.

1-2-2. Address : 1270 rue de la Souveraine Québec (Québec) G2L2N2 Canada

1-2-3. Phone / Fax : 418.261.1370

1-2-4. Recommended Use : Glass sealant

2. HAZARDS IDENTIFICATION

2-1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225

Most important adverse effects: Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2-2. Label elements

Hazard statements: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Hazard pictograms: GHS02: Flame



Signal words: Danger

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting/.. equipment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. -

2-3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 2/7

3. COMPOSITION/INFORMATION ON INGREDIENTS

3-1. Mixtures

Hazardous ingredients:

PROPANE-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Pourcent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	>90%

HYDROGEN CHLORIDE

231-595-7	7647-01-0	-	Acute Tox. 3: H331; Skin Corr. 1A: H314; Press. Gas: H280	<1%
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4. FIRST AID MEASURES

4-1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with WATER.

Inhalation: Not applicable

4-2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4-3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

5. FIRE-FIGHTING MEASURES

5-1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5-2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5-3. Advice for fire-fighters

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 3/7

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MESURES

6-1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6-2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6-3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6-4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

7-1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7-2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7-3 Specific end use(s)

Specific end use(s): No data available.

8. EXPOSURE CONTROLS/PERSONNAL PROTECTION

8-1. Control parameters

Hazardous ingredients:

PROPANE-2-OL

Workplace exposure limits:

	8 hr TLV	15 min LECT	Respirable dust	8 hr TLV	15 min LECT
UK	999 mg/m ³	1250 mg/m ³	-	-	-

HYDROGEN CHLORIDE

UK	8 mg/m ³	8 mg/m ³	-	-	-
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Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 4/7

DNEL/PNEC VALUES

Nano Vision

Type	Exposure	Value	Population	Effect
DNEL	Dermal	888 mg/kg	Workers	Systemic
DNEL	Inhalation	500 mg/m3	Workers	Systemic
PNEC	Fresh water	140,9 mg/l	-	-
PNEC	Marine water	140,9 mg/l	-	-
PNEC	Microorganisms in sewage treatment	2,251 mg/l	-	-
PNEC	Fresh water sediments	552 mg/kg	-	-
PNEC	Marine sediments	552 mg/l	-	-
PNEC	Soil (agricultural)	28 mg/kg	-	-

Hazardous ingredients:

PROPAN-2-OL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	888mg/kg	Workers	Systémic
DNEL	Inhalation	500mg/kg	Workers	Systémic
PNEC	Fresh water	140,9mg/l	-	-
PNEC	Marine water	140,9mg/l	-	-
PNEC	Microorganisms in sewage treatment	2.251mg/l	-	-
PNEC	Fresh water sediments	552mg/kg	-	-
PNEC	Marine sediments	552mg/kg	-	-
PNEC	Water	160mg/kg	-	-
PNEC	Soil (agricultural)	28mg/kg	-	-

8-2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency..

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 5/7

9. PHYSICAL AND CHEMICAL PROPERTIES

9-1. Information on basic physical and chemical properties

State: Liquid**Colour:** Colourless**Odour:** Characteristic odour**Flash point°C:** <23

9-2. Other information

Other information: No data available.

10. STABILITY AND REACTIVITY

10-1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10-2. Chemical stability

Chemical stability: Stable under normal conditions.

10-3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10-4. Conditions to avoid

Conditions to avoid: Heat..

10-5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10-6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

11-1. Information on toxicological effects

Hazardous ingredients:

PROPANE-2-OL

IVN	RAT	LD50	1088 mg/kg
ORL	MUS	LD50	3600 mg/kg
ORL	RAT	LD50	5045 mg/kg
SCU	MUS	LDLO	6 gm/kg

Relevant hazards for product:

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 6/7

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure..

12. ECOLOGICAL INFORMATION

12-1. Toxicity

Hazardous ingredients:

PROPAN-2-OL

FISH

96H LC50

10.000 mg/l

12-2. Persistence and degradability

Persistence and degradability: Biodegradable.

12-3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12-4. Mobility in soil

Mobility: Readily absorbed into soil.

12-5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12-6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

13-1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

14-1. UN number

UN number: UN1219

14-2. UN proper shipping name

Material Safety Data Sheet

Issue Date : March. 2017 Version: 1.00

Product Name : Nano Vision

Pages: 7/7

Shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)
(PROPAN-2-OL)

14-3. Transport hazard class(es)

Transport class: 3

14-4. Packing group

Packing group: II

14-5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14-6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

15: REGULATORY INFORMATION

15-1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15-2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture.

16. ADDITIONAL INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

...The End of MSDS...