

EC-Material Safety Data Sheet

1. Identification of the substance/preparation and of the company/undertaking

Revision: September 7, 2010

Commercial name:

Nano-Vision sachets : A & B

Distributor

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In case of emergency: CANUTEC (613) 996-6666 – Cell * 666
CHEMTREC, U.S. : (800) 424-9300 International: (703) 527-3887

2 Composition/Information on ingredients

Chemical characterization

Hazardous components

Hazardous components			
CAS: 67-63-0	Isopropanol Propanol-2	 F; R 11	100%
UN1219 PGII		 Danger: 2.6/2	

Full text of each relevant R phrase can be found in heading 16

3 Hazards identification



4 First Aid measures

General information

Take off immediately all contaminated clothing move victim to fresh air. Instruct person to keep calm and warm.

After inhalation

Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Call a physician.

After contact with skin

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reusing. Discard contaminated leather articles such as shoes and belt.

After contact with eyes

Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.

After ingestion

DO NOT induce vomiting. Guard against aspiration into lungs. See immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus.

Advice to doctor

Symptoms: Dizziness. Headache. Nausea. Unconsciousness, dizziness, diarrhea, gastritis and central nervous system depression.

5 Fire-fighting measures

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam. Water may be ineffective to extinguish fires. Wear adequate personal to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated demand or other positive pressure mode. Disperse vapors with water spray if they have not ignited. Cool containing vessels with flooding quantities of water.

Extinguishing media which must not be used for safety reasons

High power water jet; water may be ineffective to extinguish fires.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

In case of fire may form: oxides of carbon.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus full protective suit.

Additional information

Flammable liquid. Vapors formed from this product may travel or be moved by air current and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from handling point. Vapors forms explosive mixture with air. Contact with oxidizers may cause fire and/or explosion. Container explosion may occur under fire conditions or when heated. Not expected to be sensitive to mechanical impact. Sensitive to static discharge. emits toxic fumes under fire conditions.

6 Accidental release measures Personal precautions

Evacuate and ventilate the area. Eliminate all sources of ignition and ensure that all handling equipment is electrically grounded. Stay upwind; keep out low area. Dyke the area with sand or natural barrier. Absorb on sand or vermiculite and place in a closed container for disposal. Use non-sparking tools. Ventilate area and wash spill site after material pick up is complete. DO NOT touch spilled material.

Environmental precautions

DO NOT empty into drains. Runoff to sewer may create fire or explosion hazard.

Methods for cleaning up/taking up

Absorb on sand or vermiculite and place in a closed container for disposal. Use non-sparking tools.

7 Handling and storage

Store in a cool place away from heated areas, sparks and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. Keep container tightly close and dry. Manipulate in a well ventilated area or under an adequate fume hood. Take precautionary measures against electrostatic discharges. Ground the container while dispensing. Ground all equipment containing material. Use only explosion proof equipment. Use non-sparking tools. Watch for accumulation in low confined areas. Empty containers may contain hazardous residue.

Handling

Handle and open container with care. Manipulate in a well ventilated area or under an adequate fume hood. Take precautionary measures against electrostatic discharges. Ground the container while dispensing. Handle and open container with care. Take off immediately all contained clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. Never use welding or cutting torch on or near feel unwell, seek medical advice immediately (shown the label when possible)

Further information on handling

Keep in a cool, well-ventilated place.

Storage

Requirements for storage rooms and vessels

Store in a cool place away from heated areas, sparks and flame. Store in a well ventilated area. Store away from incompatible materials. Keep container tightly closed in a cool, well-ventilated place. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Do not use pressure to dispense. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Further information on storage conditions

Storage stability: 6 months

Storage temperature: 5°C - 25°C

Storageclass (VCI) : B-2

8 Exposure controls / Personal protection

Exposure limit values

Exposure limits (EH40)

CAS No. 67-63-0

ml/m³:

mg/m³: 400

F/ml :

Substance Isopropanol

Category: TWA (8h) **Origin:** WEL

Category: STEL (15 min) **Origin:** WEL

Exposure controls

Occupational exposure controls

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. In the immediate working surroundings there must be: Emergency spray installed. Provide eye spray and label its location conspicuously.

Protective and hygiene measures

It is recommended to organise all working processes so that the following can be ruled out: inhalation. skin contact. eye contact. After work, wash hands and face.

Respiratory protection

Wear respiratory protection when in the presence of vapour, dust, and aerosols.

Hand protection

Protect skin by using skin protective cream. Tested protective gloves are to be worn: Qualified materials: NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer).

Eye protection

Tightly sealed safety glasses.

Skin protection

Lab apron.

Environmental exposure controls

refer to Chap. 5 and 6

9 Physical and chemical properties

General information

Physical state : liquid

Colour : colourless

Odour : alcoholic

Important health, safety and environmental information

pH-Value (at 25 °C) : unavailable

Changes in the physical state

Boiling point : unavailable

Flash point : unavailable

Density (at 20 °C) : unavailable

Viscosity / dynamic : unavailable

Flow time : unavailable

10. Stability and reactivity

Conditions to avoid

Keep only in the original container at temperature not exceeding 30 °C.

Materials to avoid

Oxidizing agents. Alkalis (alkalis).

Hazardous decomposition products

No risks worthy of mention.

11. Toxicological information

INGREDIENT	% V/V	NO. CAS	TLV, ppm	CL50, ppm/4h.	DL50, mg/kg	DL50, mg/kg
				RAT, INHAL.	RAT, ORAL	RABBIT , SKIN
(1) Isopropanol	100	67-63-0	400	16,970	4,420	13.000

Further information

See protective measures under point 7 and 8.

12. Disposal considerations

Waste disposal number of waste from residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Completely emptied packings can be re-cycled.

13 Regulatory information

Labelling

Danger symbols : B - flammable
11 flammable.



flammable

S- Phrases

2 Keep out of the reach of children.
7 Keep container tightly closed.
13 Keep away from food, drink and animal feeding stuffs.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.

National regulations

Water contaminating class : 1 - slightly water contaminating

14. Other information

Full text of R-phrases referred to under sections 2 and 3

11 flammable.

Other data

The information contained herein is based on our best knowledge and on the present state of our experience. No warranty is made as to completeness.

This material safety data sheet should not constitute a guarantee or promise of properties of the preparation and it shall not establish a legally valid relationship.

Nanoprotex (Canada) INC cannot be held responsible for any damage which may result from improper handling of or contact with this chemical.

It is the responsibility of the user of our products to adhere to valid legal provisions and regulations.