

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product name : BONDAID I
Product code : 1291218
Product type : liquid

Use of the substance/mixture

Uses

None identified.

Manufacturer : INX Digital International Co.
2125 Williams Street
San Leandro, California 94577
United States

Supplier : INX Digital Czech a.s.
Pražská 298
Brandys nad Labem, 250 01
Czech Republic
+420 326.914.083

24 Hour Emergency Phone : 800.424.9300 CHEMTREC 24 Hour Spill
and Emergency (+1 703 527 3887
Worldwide)

Product Safety (EHS) Phone : 630.382.1800 x1450
MSDS Email Information : MSDS@inxintl.com

2. HAZARDS IDENTIFICATION

Hazard symbol or symbols

:



Highly
flammable



Irritant

Classification

: F, R11
R43

Physical/chemical hazards

: Highly flammable.

Human health hazards

: May cause sensitization by skin contact.

Environmental hazards

: Not applicable.

Additional hazards

: Not available.

See Section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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| Ingredient name | CAS number | % | EC number | Classification |
|--------------------|------------|-------------------|-----------|---|
| Ethanol | 64-17-5 | 70,0000 - 90,0000 | 200-578-6 | F; R11 [2] |
| Propyl Acetate, n- | 109-60-4 | 3,0000 - 5,0000 | 203-686-1 | F; R11 Xi; R36 R66 R67 F; R11 Xi; R36 R66 R67 [1][1][2] |
| Isopropanol | 67-63-0 | 3,0000 - 5,0000 | 200-661-7 | F; R11 Xi; R36 R67 [1][2] |
| Silane component | | 2,0000 - 3,0000 | | Xi; R37 R43 [1] |

See Section 16 for the full text of the R-phrases declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT

[4] vPvB

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

First aid measures

Inhalation :

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion :

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact :

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact :

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Protection of first-aiders :

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician :

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have

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been ingested or inhaled.

See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable :

Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable :

Do not use water jet.

Special exposure hazards :

Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal decomposition products :

Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective equipment for fire-fighters :

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode., Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions :

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill :

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

Dispose of via a licensed waste disposal contractor.

Large spill :

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

Handling :

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking

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should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage :

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials**Recommended :**

Use original container.

Exposure Scenario information :

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values**Ingredient name**

ethanol

Occupational exposure limits

EH40/2005 WELs (1997-01-01) Notes: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used. For this substance the classification and labeling was introduced in the 29th Adaptation to Technical Progress of the European Community's Dangerous Substances Directive
Time Weighted Average (TWA) 1 920 mg/m³ , 1 000 ppm

propyl acetate

EH40/2005 WELs (1997-01-01) Short Term Exposure Limit (STEL) 1 060 mg/m³ , 250 ppm
EH40/2005 WELs (1997-01-01) Time Weighted Average (TWA) 849 mg/m³ , 200 ppm

propan-2-ol

EH40/2005 WELs (1997-01-01) Short Term Exposure Limit (STEL) 1 250 mg/m³ , 500 ppm
EH40/2005 WELs (1997-01-01) Time Weighted Average (TWA) 999 mg/m³ , 400 ppm

Recommended monitoring procedures :

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

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Exposure controls**Occupational exposure controls :**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures :

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection :

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection :

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection :

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection :

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls :

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information**Appearance**

| | | |
|-------------------------|---|--------------------|
| Physical state | : | liquid |
| Color | : | Colorless. |
| Flash point | : | 12,8 °C |
| Relative density | : | 0,82 |
| Volatile. | : | 98 %(m)Weight % |
| VOC | : | 90,01 %(m)Weight % |
| | | 99,81 %(V)Volume % |
| | | 93,24 %(V)Volume % |

10. STABILITY AND REACTIVITY

Chemical stability :

The product is stable.

Conditions to avoid :

Avoid all possible sources of ignition (spark or flame).

Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid :

Highly reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition products :

Under normal conditions of storage and use, hazardous decomposition products should not be

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produced.

11. TOXICOLOGICAL INFORMATION

Toxicokinetics

Acute toxicity

| Chemical name | Test | Species | Dose | Exposure |
|--------------------|-----------|---------|-------------|----------|
| Propyl Acetate, n- | Oral LD50 | Rat | 9 370 mg/kg | - |

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------|---------|-------|----------|-------------|
|-------------------------|--------|---------|-------|----------|-------------|

Conclusion/Summary

Skin : Not available.
eyes : Not available.
Respiratory : Not available.

Sensitizer

Conclusion/Summary

Skin : Not available.
Respiratory : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation:

Inhalation

Ingestion:

No specific data.

Skin:

No specific data.

eyes:

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Adverse symptoms may include the following: irritation watering redness

12. ECOLOGICAL INFORMATION

Aquatic ecotoxicity

| Chemical name | Test | Result | Species | Exposure |
|---------------|--------------|--------------------------|----------------|----------|
| Ethanol | Marine water | 17,921 mg/l | Green algae | 4 d |
| Ethanol | Fresh water | > 10 000 - < 20 000 mg/l | Green algae | 4 d |
| Ethanol | Fresh water | 2 mg/l | Water flea | 2 d |
| Ethanol | Fresh water | 9 300 mg/l | Water flea | 2 d |
| Ethanol | Fresh water | 10 600 mg/l | Water flea | 2 d |
| Isopropanol | | > 1 400 mg/l | Bluegill | 4 d |
| Isopropanol | Fresh water | 11 130 mg/l | Fathead minnow | 4 d |
| Isopropanol | Fresh water | 10 400 mg/l | Fathead minnow | 4 d |
| Isopropanol | Fresh water | 6 550 mg/l | Fathead minnow | 4 d |
| Isopropanol | Fresh water | 9 640 mg/l | Fathead minnow | 4 d |

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Methods of disposal :

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste :

The classification of the product may meet the criteria for a hazardous waste.

Exposure Scenario information :

Not available.

14. TRANSPORT INFORMATION

International transport regulations

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|-----------|---|---------|-----|-------|------------------------|
| IMDG Class | UN1993 | Flammable liquid, n.o.s. (n-propyl alcohol, n-propyl acetate) | 3 | II | - | |
| IATA Class | UN1993 | Flammable liquid, n.o.s. (n-propyl alcohol, n-propyl acetate) | 3 | II | - | |
| ADR/RID Class | UN1993 | Flammable liquid, n.o.s. (n-propyl alcohol, n-propyl acetate) | 3 | II | - | |

ADN/ADNR UN1993 **Flammable** 3 II -
Class liquid, n.o.s. (n-
propyl alcohol, n-
propyl acetate)

PG* : Packing group

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Highly flammable

Irritant

Risk phrases : R11 - Highly flammable.
R43 - May cause sensitization by skin contact.

Safety phrases : S24 -Avoid contact with skin.
S37 -Wear suitable gloves.

Contains : 2-Propenoic acid, 3-(trimethoxysilyl)propyl ester2-
Propenoic acid, 3-(trimethoxysilyl)propyl ester

Product use : Industrial applications

Prior Informed Consent. List of chemicals subject to the international PIC procedure (Part I, II, III) :

Other EU regulations

Additional warning phrases : Not applicable.

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

Restrictions on the Marketing and Use Directive :

National regulations

International regulations

16. OTHER INFORMATION

Restrictions on use

Uses : None identified.

History

Date of printing : 04.03.2013

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Version : 1.9

Prepared by : MEEKJ

Notice to reader

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To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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