

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/04/2007

Reviewed on 05/04/2007

## 1 Identification of substance

- **Product details**
- **Trade name:** XTREME COLORS
- **Article number:** IJ700-50 Flush
- **Manufacturer/Supplier:**  
Signs Int'l Distributor Co.  
1940 NW 82nd Ave  
Miami, FL 33126  
TEL: (305)715-0017  
www.sidsigns.com



- **Information department:** Product safety department.

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

	2-butoxyethyl acetate	40-60%
EINECS: 203-940-1	2-(2-ethoxyethoxy)ethyl acetate	20-40%
EINECS: 203-631-1	cyclohexanone	2-10%
EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	2-10%
EINECS: 212-828-1	N-methyl-2-pyrrolidone	2-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment:**  
The product has to be labelled due to the calculation procedure of international guidelines.  
R 20/21 Harmful by inhalation and in contact with skin.  
R 36 Irritating to eyes.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 2  
Reactivity = 0

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- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

## 4 First aid measures

- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaust at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** Keep container tightly sealed.

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## 8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

### 2-butoxyethyl acetate

REL	33 mg/m <sup>3</sup> , 5 ppm Skin
TLV	130 mg/m <sup>3</sup> , 20 ppm

### cyclohexanone

PEL	200 mg/m <sup>3</sup> , 50 ppm
REL	100 mg/m <sup>3</sup> , 25 ppm Skin
TLV	50 mg/m <sup>3</sup> , 20 ppm Skin

### 2-methoxy-1-methylethyl acetate

WEEL	50 ppm
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### N-methyl-2-pyrrolidone

WEEL	10 ppm Skin
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Avoid skin contact. Disposable neoprene or nitrile gloves may be used to guard against momentary exposure.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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 prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Safety glasses with side shields is minimum protective equipment when handling ink. Face shield or tightly sealed goggles is best practice.

## 9 Physical and chemical properties

· **General Information**

**Form:** Fluid  
**Color:** According to product specification  
**Odor:** Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 146°C (295°F)

· **Flash point:** 62°C (144°F)· **Ignition temperature:** 280.0°C (536°F)· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

**Lower:** 1.7 Vol %  
**Upper:** 8.4 Vol %

· **Vapor pressure at 20°C (68°F):** 0.4 hPa (0 mm Hg)· **Density at 20°C (68°F):** 0.96633 g/cm<sup>3</sup>· **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

· **Solvent content:**

**Organic solvents:** 70.1 %  
**VOC content:** 70.1 %  
 677.1 g/l / 5.65 lb/gal

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.· **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

· **LD/LC50 values that are relevant for classification:****2-butoxyethyl acetate**

Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	1580 mg/kg (rabbit)

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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

## 12 Ecological information

- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

## 15 Regulations

- **Sara**
- **Section 355 (extremely hazardous substances):**  
None of the ingredient is listed.
- **Section 313 (Specific toxic chemical listings):**  
N-methyl-2-pyrrolidone
- **TSCA (Toxic Substances Control Act):**  
All ingredients are listed.

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- **Proposition 65**

- **Chemicals known to cause cancer:**

- N-methyl-2-pyrrolidone

- **Chemicals known to cause reproductive toxicity for females:**

- None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

- None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

- N-methyl-2-pyrrolidone

- **Carcinogenity categories**

- **EPA (Environmental Protection Agency)**

- None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

- cyclohexanone

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- **NTP (National Toxicology Program)**

- None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

- cyclohexanone

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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

- None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

- None of the ingredients is listed.

- **Product related hazard informations:**

- The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**

- Xn Harmful

- **Hazard-determining components of labelling:**

- 2-butoxyethyl acetate

- **Risk phrases:**

- 20/21 Harmful by inhalation and in contact with skin.

- 36 Irritating to eyes.

- **Safety phrases:**

- 2 Keep out of the reach of children.

- 9 Keep container in a well-ventilated place.

- 13 Keep away from food, drink and animal feedingstuffs.

- 36/37 Wear suitable protective clothing and gloves.

- 46 If swallowed, seek medical advice immediately and show this container or label.

- 56 Dispose of this material and its container to hazardous or special waste collection point.

- **National regulations:**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

## 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.

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- **Department issuing MSDS:** Product safety department.
- **Contact:** Safety Manager

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