

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Printing date 01/19/2024

Version: 3.0

Reviewed on 01/19/2024

### \* 1 Identification

#### Product identifier

**Product name: XFLEXX Series: Black**

**Article number:** ixF-k

**Application of the substance / the mixture:** Printing inks

#### Details of the supplier of the safety data sheet

Inkcups Now Corp  
310 Andover Street  
Danvers, MA 01923  
USA  
1-978-646-8980

#### Manufacturer/Supplier:

Inkcups Now Corp  
310 Andover Street  
Danvers, MA 01923 USA

**Information department:** [compliance@inkcups.com](mailto:compliance@inkcups.com)

**Emergency telephone number:** Verisk 3E US & Canada: +1 866 519 4752; Access Code: 335740

### 2 Hazard(s) identification

#### Classification of the substance or mixture

Acute Toxicity - Oral 4    H302 Harmful if swallowed.  
Skin Corrosion 1C        H314 Causes severe skin burns and eye damage.  
Eye Damage 1            H318 Causes serious eye damage.  
Sensitization - Skin 1    H317 May cause an allergic skin reaction.  
Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

#### Label elements

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS05    GHS07    GHS08

**Signal word** Danger

#### Hazard-determining components of labeling:

Tetrahydrofurfuryl Acrylate  
2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester  
2-phenoxyethyl acrylate  
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  
Neopentylglycol(PO)2 Diacrylate  
propylidynetrimethanol, propoxylated, esters with acrylic acid  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

#### Hazard statements

Harmful if swallowed.  
Causes severe skin burns and eye damage.

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May cause an allergic skin reaction.

May damage fertility or the unborn child.

### Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Call a poison center/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

8.3 % of the mixture consists of component(s) of unknown toxicity.

## 3 Composition/information on ingredients

### Chemical characterization: Mixtures

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

### Dangerous components:

2399-48-6 Tetrahydrofurfuryl Acrylate	25 - 50%
Toxic to Reproduction 1B, H360; Skin Corrosion 1C, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	
86273-46-3 2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester	≥ 10 - ≤ 25%
Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	
48145-04-6 2-phenoxyethyl acrylate	≥ 2.5 - ≤ 25%
Toxic to Reproduction 2, H361; Sensitization - Skin 1A, H317	
84170-74-1 Neopentylglycol(PO) <sub>2</sub> Diacrylate	2.5 - 10%
Sensitization - Skin 1, H317	
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≥ 2.5 - ≤ 10%
Toxic to Reproduction 2, H361	
53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid	2.5 - 10%
Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
1333-86-4 Carbon black	≥ 0 - ≤ 10%
Self-heating substances and mixtures 2, H252	
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	2.5 - 10%
Sensitization - Skin 1A, H317	
71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	≥ 0 - ≤ 2.5%
Toxic to Reproduction 1B, H360; Acute Toxicity - Oral 4, H302	

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119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone  
Toxic to Reproduction 1B, H360

≥ 0 - ≤ 2.5%

## 4 First-aid measures

### Description of first aid measures

**General information:**

Immediately remove any clothing soiled by the product.

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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## 7 Handling and storage

### Handling:

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**Information about protection against explosions and fires:** Keep respiratory protective device available.

### Conditions for safe storage, including any incompatibilities

#### 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 receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

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

### Control parameters

#### Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

#### 1333-86-4 Carbon black

PEL Long-term value: 3.5 mg/m<sup>3</sup>

REL Long-term value: 3.5\* mg/m<sup>3</sup>

\*0.1 in presence of PAHs; See Pocket Guide Apps.A+C

TLV Long-term value: 3\* mg/m<sup>3</sup>

\*inhalable fraction, A3

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### 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.

Store protective clothing separately.

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:



Protective gloves

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

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## 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.

## Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Liquid
<b>Color:</b>	Black
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

**pH-value:** Not determined.

#### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Decomposition temperature:** Not determined.

**Ignition temperature:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

#### Explosion limits:

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**Vapor pressure:** Not determined.

**Density:** Not determined.

<b>Relative density</b>	Not determined.
<b>Vapor density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

#### Solubility in / Miscibility with

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

**Partition coefficient (n-octanol/water):** Not determined.

#### Viscosity:

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.

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## Other information

No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Oral LD50 1,400 - 1,408 mg/kg

#### 2399-48-6 Tetrahydrofurfuryl Acrylate

Oral LD50 928 mg/kg (rat)

#### 86273-46-3 2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester

Oral LD50 500 mg/kg (ATE)

#### 53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid

Oral LD50 > 2,000 mg/kg (rat)

#### 1333-86-4 Carbon black

Oral LD50 10,000 mg/kg (rat)

#### 71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

Oral LD50 500 mg/kg (ATE)

#### Primary irritant effect:

**on the skin:** Strong caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Sensitization:** Sensitization possible through skin contact.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### Carcinogenic categories

#### IARC (International Agency for Research on Cancer)

1333-86-4 Carbon black: 2B

119-61-9 benzophenone: 2B

108-88-3 Toluene: 3

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate: 2B

100-41-4 ethylbenzene: 2B

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127-19-5 N,N-dimethylacetamide: 2B

**NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

## 12 Ecological information

**Toxicity**

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

**Behavior in environmental systems:**

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Ecotoxicological effects:**

**Remark:** Toxic for fish

**Additional ecological information:**

**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

**Waste treatment methods**

**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

**UN-Number**

**DOT**

not regulated

**IMDG, IATA**

UN3082

**UN proper shipping name**

**DOT**

not regulated

**IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Tetrahydrofurfuryl Acrylate), MARINE POLLUTANT

**IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Tetrahydrofurfuryl Acrylate)

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## Transport hazard class(es)

### DOT

Class

not regulated

### IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles

Label

9

### Packing group

DOT

not regulated

IMDG, IATA

III

### Environmental hazards:

Marine pollutant:

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

### Special precautions for user

Warning: Miscellaneous dangerous substances and articles

Hazard identification number (Kemler code): 90

EMS Number:

F-A,S-F

Stowage Category

A

### Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

### Transport/Additional information:

#### IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (TETRAHYDROFURFURYL ACRYLATE), 9, III

## 15 Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA

##### Section 355 (extremely hazardous substances):

None of the ingredients is listed.

##### Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### TSCA (Toxic Substances Control Act):

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

86273-46-3 2-Propenoic acid, 2-[2-(ethenylloxy)ethoxy]ethyl ester: ACTIVE

48145-04-6 2-phenoxyethyl acrylate: ACTIVE

84170-74-1 Neopentylglycol(PO)2 Diacrylate: ACTIVE

75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: ACTIVE

53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid: ACTIVE

1333-86-4 Carbon black: ACTIVE

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide: ACTIVE



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71868-10-5 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one: ACTIVE

119313-12-1 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone: ACTIVE

### **Hazardous Air Pollutants**

108-88-3 Toluene

67-56-1 methanol

100-41-4 ethylbenzene

### **Proposition 65**

#### **Chemicals known to cause cancer:**

1333-86-4 Carbon black

119-61-9 benzophenone

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

100-41-4 ethylbenzene

127-19-5 N,N-dimethylacetamide

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

None of the ingredients is listed.

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

127-19-5 N,N-dimethylacetamide

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

108-88-3 Toluene

67-56-1 methanol

127-19-5 N,N-dimethylacetamide

### **Carcinogenic categories**

#### **EPA (Environmental Protection Agency)**

110-82-7 cyclohexane: I

108-88-3 Toluene: II

100-41-4 ethylbenzene: D

#### **TLV (Threshold Limit Value)**

1333-86-4 Carbon black: A4

108-88-3 Toluene: A4

100-41-4 ethylbenzene: A3

127-19-5 N,N-dimethylacetamide: A4

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

1333-86-4 Carbon black

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

### **Hazard pictograms**



GHS05

GHS07

GHS08

**Signal word** Danger

### **Hazard-determining components of labeling:**

Tetrahydrofurfuryl Acrylate

2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester

2-phenoxyethyl acrylate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Neopentylglycol(PO)<sub>2</sub> Diacrylate

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propylidynetrimethanol, propoxylated, esters with acrylic acid  
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

**Hazard statements**

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May damage fertility or the unborn child.

**Precautionary statements**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Call a poison center/doctor if you feel unwell.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center/doctor.  
IF exposed or concerned: Get medical advice/attention.  
Specific treatment (see on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

**Relevant phrases**

H227 Combustible liquid.  
H252 Self-heating in large quantities; may catch fire.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H360 May damage fertility or the unborn child.  
H361 Suspected of damaging fertility or the unborn child.

**Contact:**

**Date of preparation / last revision** 01/19/2024

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 4: Flammable liquids – Category 4

Self-heating substances and mixtures 2: Self-heating substances and mixtures – Category 2

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Corrosion 1C: Skin corrosion/irritation – Category 1C

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1A: Skin sensitisation – Category 1A

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Toxic to Reproduction 2: Reproductive toxicity – Category 2

**\* Data compared to the previous version altered.**