

Safety Data Sheet

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

Printing date 12/13/2023

Version: 2.2

Reviewed on 12/13/2023

1 Identification

Product identifier

Product name: GlassBoost Primer

Article number: ia-glassboost

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
1-978-6468980

Manufacturer/Supplier:

Inkcups Now Corp
310 Andover Street
Danvers, MA 01923
USA

Information department: 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

Flammable Liquids 3

H226 Flammable liquid and vapor.

Skin Irritation 2

H315 Causes skin irritation.

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.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.

Label elements

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

Hazard pictograms



GHS02 GHS05 GHS07 GHS08

Signal word

Danger

Hazard-determining components of labeling:

ethyl lactate
hexamethylene diacrylate
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
propylidynetrimethanol, propoxylated, esters with acrylic acid
2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester
Methacrylate acid ester

Hazard statements

Flammable liquid and vapor.

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Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause respiratory irritation.

Precautionary statements

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

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

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).

Take off contaminated clothing and wash it before reuse.

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

Wash contaminated clothing before reuse.

In case of fire: Use CO₂, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

13048-33-4 hexamethylene diacrylate	25 - 50%
Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
97-64-3 ethyl lactate	≥ 10 - ≤ 50%
Flammable Liquids 3, H226; Eye Damage 1, H318; Specific Target Organ Toxicity - Single Exposure 3, H335	
53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid	10 - 25%
Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
7328-17-8 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester	≥ 2.5 - ≤ 10%
Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Sensitization - Skin 1, H317; Eye Irritation 2B, H320	

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Methacrylate acid ester	≥ 2.5 - ≤ 10%
Skin Irritation 2, H315; Sensitization - Skin 1, H317	
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	2.5 - 10%
Toxic to Reproduction 2, H361	
67-63-0 isopropanol	≥ 0 - ≤ 2.5%
Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336	
84-74-2 dibutyl phthalate	≥ 0 - ≤ 2.5%
Toxic to Reproduction 1B, H360	

4 First-aid measures

Description of first aid measures

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: If symptoms persist consult 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: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

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).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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 ignition sources away - Do not smoke.

Protect against electrostatic charges.

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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

13048-33-4 hexamethylene diacrylate

WEEL Long-term value: 1 mg/m³

DSEN

67-63-0 isopropanol

PEL Long-term value: 980 mg/m³, 400 ppm

REL Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

TLV Short-term value: 400 ppm

Long-term value: 200 ppm

BEI, A4

84-74-2 dibutyl phthalate

PEL Long-term value: 5 mg/m³

REL Long-term value: 5 mg/m³

TLV Long-term value: 5 mg/m³

Ingredients with biological limit values:

67-63-0 isopropanol

BEI 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

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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 skin.

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

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:

Form:

Fluid

Color:

According to product specification

Odor:

Characteristic

Odor threshold:

Not determined.

pH-value:

Not determined.

Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

107 °C (224.6 °F)

Flash point:

23 - 60 °C (73.4 - 140 °F)

Flammability (solid, gaseous):

Flammable.

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Auto igniting:	235 °C (455 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 50 °C (122 °F):	0 hPa
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Solids content:	55.1 %
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)

Dermal LD50 17,645 - 35,290 mg/kg (rab)

13048-33-4 hexamethylene diacrylate

Oral LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 3,000 mg/kg (rab)

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

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

7328-17-8 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester

Dermal LD50 1,100 mg/kg (ATE)

67-63-0 isopropanol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

84-74-2 dibutyl phthalate

Oral LD50 8,000 mg/kg (rat)

Dermal LD50 20,000 mg/kg (rabbit)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

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

Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

67-63-0 isopropanol: 3

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

79-10-7 acrylic acid: 3

128-37-0 Butylated hydroxytoluene: 3

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.

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.

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

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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

NA1993

IMDG, IATA

UN1993

UN proper shipping name

DOT

COMBUSTIBLE LIQUID, N.O.S (Ethyl lactate, Isopropanol)

IMDG

FLAMMABLE LIQUID, N.O.S. (ETHYL LACTATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), MARINE POLLUTANT

IATA

FLAMMABLE LIQUID, N.O.S. (ETHYL LACTATE, ISOPROPANOL (ISOPROPYL ALCOHOL))

Transport hazard class(es)

DOT



**Class
Label**

3 Combustible liquids
3

IMDG



**Class
Label**

3 Flammable liquids
3

IATA



**Class
Label**

3 Flammable liquids
3

Packing group

DOT, IMDG, IATA

III

Environmental hazards:

Product contains environmentally hazardous substances: dibutyl phthalate

Marine pollutant:

Symbol (fish and tree)

Special precautions for user

Warning: Flammable liquids

Hazard identification number (Kemler code): 30

EMS Number:

F-E,S-E

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Stowage Category

A

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

DOT

Quantity limitations

On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

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 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL LACTATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III, ENVIRONMENTALLY HAZARDOUS

*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):

67-63-0 isopropanol

84-74-2 dibutyl phthalate

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.

13048-33-4 hexamethylene diacrylate: ACTIVE

97-64-3 ethyl lactate: ACTIVE

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

7328-17-8 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester: ACTIVE

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

67-63-0 isopropanol: ACTIVE

84-74-2 dibutyl phthalate: ACTIVE

Hazardous Air Pollutants

84-74-2 dibutyl phthalate

79-10-7 acrylic acid

Proposition 65

Chemicals known to cause cancer:

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

Chemicals known to cause reproductive toxicity for females:

84-74-2 dibutyl phthalate

Chemicals known to cause reproductive toxicity for males:

84-74-2 dibutyl phthalate

Chemicals known to cause developmental toxicity:

84-74-2 dibutyl phthalate

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Carcinogenic categories

EPA (Environmental Protection Agency)

84-74-2 dibutyl phthalate: D

TLV (Threshold Limit Value)

67-63-0 isopropanol: A4

79-10-7 acrylic acid: A4

128-37-0 Butylated hydroxytoluene: A4

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

None of the ingredients is listed.

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

Hazard pictograms



GHS02

GHS05

GHS07

GHS08

Signal word Danger

Hazard-determining components of labeling:

ethyl lactate

hexamethylene diacrylate

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

propylidynetrimethanol, propoxylated, esters with acrylic acid

2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester

Methacrylate acid ester

Hazard statements

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause respiratory irritation.

Precautionary statements

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

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

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).

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Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 In case of fire: Use CO₂, powder or water spray to extinguish.
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 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

H225 Highly flammable liquid and vapor.
 H226 Flammable liquid and vapor.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H320 Causes eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H360 May damage fertility or the unborn child.
 H361 Suspected of damaging fertility or the unborn child.

Contact:

Date of preparation / last revision 12/13/2023

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
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 BEI: Biological Exposure Limit
 Flammable Liquids 2: Flammable liquids – Category 2
 Flammable Liquids 3: Flammable liquids – Category 3
 Acute Toxicity - Dermal 4: Acute toxicity – Category 4
 Skin Irritation 2: Skin corrosion/irritation – Category 2
 Eye Damage 1: Serious eye damage/eye irritation – Category 1
 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
 Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B
 Sensitization - Skin 1: Skin sensitisation – Category 1
 Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
 Toxic to Reproduction 2: Reproductive toxicity – Category 2
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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