

# SAFETY DATA SHEET IC-291BK PRINTING INK

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name

IC-291BK PRINTING INK

Product number

IC-291BK

Recommended use of the chemical and restrictions on use

**Application** 

Printing ink.

Details of the supplier of the safety data sheet

Supplier

Domino Amjet Inc 1290 Lakeside Drive Gurnee, Illinois 60031

Tel: +1 847 244 2501 Fax: +1 847 244 1421 Email: msds@domino-uk.com

Emergency telephone number

Emergency telephone

For MEDICAL emergencies call:

International Poison Control Center, USA

1-800-228-5635 (24 Hours)

+1 612-851-8180 (24 hours, International)

For TRANSPORTATION emergencies call: CHEMTREC 1-800-424-9300 (US Calls) +1 703-527-3887 (International calls)

National emergency telephone 911

number

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards

Flam. Liq. 2 - H225

Health hazards

STOT SE 3 - H336

Environmental hazards

Aquatic Chronic 3 - H412

Human health

See Section 11 for additional information on health hazards.

Environmental

The product contains a substance which may cause long-term adverse effects in the aquatic

environment.

#### **Physicochemical**

Vapors are heavier than air and may travel along the floor and accumulate in the bottom of

#### Label elements

#### Pictogram





Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapor. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P261 Avoid breathing vapor/spray.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with national regulations.

Contains

BUTANONE

WHMIS Label

Flammable Liquid. Materials Causing Other Toxic Effects.

#### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on Ingredients

#### Mixtures

BUTANONE 50-70%

CAS number: 78-93-3

REACH registration number: 01-

2119457290-43-XXXX

#### Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

ETHANOL 10-30%

CAS number: 64-17-5

REACH registration number: 01-

2119457610-43-xxxx

#### Classification

Flam. Liq. 2 - H225

# C.I. SOLVENT BLACK 29

5-9.9%

CAS number: 61901-87-9

#### Classification

Aquatic Chronic 2 - H411

Revision date: 7/16/2015 Revision: 2 Supersedes date: 7/1/2015

# **IC-291BK PRINTING INK**

2-METHYLPROPAN-2-OL <1%

CAS number: 75-65-0

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 Acute Tox. 4 - H332 STOT SE 3 - H335

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments

The product contains organic solvents.

4. First-aid measures

Description of first aid measures

General information Keep affected person away from heat, sparks and flames.

**Inhalation** Move affected person to fresh air at once. If breathing stops, provide artificial respiration.

Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not

induce vomiting. Get medical attention immediately.

Skin Contact Remove affected person from source of contamination. Wash skin thoroughly with soap and

water. Get medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15

minutes. Continue to rinse for at least 15 minutes. Get medical attention immediately,

Most important symptoms and effects, both acute and delayed

General Information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** Vapors may cause headache, fatigue, dizziness and nausea.

**Ingestion** May cause nausea, headache, dizziness and intoxication.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** May cause severe eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

5.Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray.

Special hazards arising from the substance or mixture

Specific hazards Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO), Carbon dioxide (CO2),

Take precautionary measures against static discharges.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours.

Advice for firefighters

# Protective actions during firefighting

Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Use water to keep fire exposed containers cool and disperse vapors. Move containers from fire area if it can be done without risk.

#### 6. Accidental release measures

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

#### Methods and material for containment and cleaning up

#### Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid the spillage or runoff entering drains, sewers or watercourses. Small Spillages: Absorb spillage with noncombustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Inform authorities if large amounts are involved.

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

# 7. Handling and storage

#### Precautions for safe handling

#### Usage precautions

Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Vapors may accumulate on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented.

#### Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from oxidizing materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

Storage class

Flammable liquid storage.

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

# 8. Exposure Controls/personal protection

#### Control parameters

# Occupational exposure limits

#### BUTANONE

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³ Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³ Long-term exposure limit (8-hour TWA): OSHA 200 ppm 590 mg/m³

#### **ETHANOL**

Long-term exposure limit (8-hour TWA): ACGIH Short-term exposure limit (15-minute): ACGIH 1000 ppm

#### 2-METHYLPROPAN-2-OL

Long-term exposure limit (8-hour TWA): ACGIH 100 ppm Short-term exposure limit (15-minute): ACGIH

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

# CELLULOSE ACETATE BUTYRATE (CAS: 9004-36-8)

Ingredient comments

WEL = Workplace Exposure Limits

# Exposure controls

#### Protective equipment





Appropriate engineering

controls

All handling should only take place in well-ventilated areas.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin. When using do not eat, drink or smoke. Wash hands

at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Environmental exposure controls

Keep container tightly sealed when not in use.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Appearance

Liquid.

Color

Black.

Odor

Ketonic.

Initial boiling point and range

~75-85°C @°C @ 760 mm Hg

Flash point

-6°C CC (Closed cup).

Vapour density

>1

Relative density

0.859 @ @ 20°C

Solubility(ies)

Slightly soluble in water. Soluble in the following materials: Organic solvents.

Viscosity

3.75-4.25 cP @ 25°C

Other information

Not determined.

10. Stability and reactivity

Reactivity

There are no known reactivity hazards associated with this product.

Stability

Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Not available.

Conditions to avoid

Avoid contact with strong oxidizing agents.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition

products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

# 11. Toxicological information

### Information on toxicological effects

Toxicological effects

No information available.

Acute toxicity - oral

Notes (oral LD∞)

Not determined.

Acute toxicity - dermal

Notes (dermal LDso)

Not determined.

Acute toxicity - inhalation

Notes (inhalation LC∞)

Not determined.

Germ cell mutagenicity

Genotoxicity - in vitro

Not determined.

Carcinogenicity

Carcinogenicity

Not determined.

Reproductive toxicity

Reproductive toxicity - fertility Not determined.

Reproductive toxicity -

Not determined.

development

Specific target organ toxicity - single exposure

STOT - single exposure

No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

No information available.

Aspiration hazard

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Vapors may cause headache, fatigue, dizziness and nausea.

Ingestion

May cause nausea, headache, dizziness and intoxication.

Skin Contact

Product has a defatting effect on skin. May cause allergic contact eczema.

Eye contact

Irritating to eyes.

Route of entry

Ingestion. Skin absorption Inhalation

Medical Symptoms

NERVOUS SYSTEM. Drowsiness, dizziness, disorientation, vertigo. Intoxication. Symptoms following overexposure to dust may include the following: Irritability. Headache. Nausea,

vomiting.

12. Ecological Information

**Ecotoxicity** 

Dangerous for the environment. May cause long-term adverse effects in the aquatic

environment.

**Toxicity** 

**Toxicity** 

Avoid discharge to the aquatic environment.

Persistance and degradability

Persistence and degradability

There are no data on the degradability of this product.

Bloaccumulative potential

**Bio-Accumulative Potential** 

No data available on bioaccumulation.

Mobility in soil

Mobility

The product contains volatile organic compounds (VOCs) which will evaporate easily from all

surfaces.

Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Other adverse effects

Other adverse effects

Not determined.

13. Disposal considerations

Waste treatment methods

General information

Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

14. Transport information

**UN Number** 

UN No. (DOT)

1210

UN No. (IMDG)

1210

UN No. (ICAO)

1210

UN proper shipping name

Proper shipping name (DOT)

PRINTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING

PRINTING INK THINNING OR REDUCING COMPOUND), FLAMMABLE

Proper shipping name

(IMDG)

PRINTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING

PRINTING INK THINNING OR REDUCING COMPOUND), FLAMMABLE

Proper shipping name (ICAO) PRINTING INK, FLAMMABLE OR PRINTING INK RELATED MATERIAL (INCLUDING PRINTING INK THINNING OR REDUCING COMPOUND), FLAMMABLE

#### Transport hazard class(es)

**DOT** hazard class

3

DOT hazard label

Flammable Liquid

**TDG** class

3

TDG label

3

IMDG Class

3

IMDG subsidiary risk

3

ICAO class/division ICAO subsidiary risk

# Transport labels

#### Packing group

DOT pack group

Ħ

IMDG packing group

II

ICAO packing group

11

#### Environmental hazards

**Environmentally Hazardous Substance** 

Special precautions for user

F-E, S-D

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

Regulatory Status

This product is formulated with a Chromium Complex dyestuff. Trace amounts of Chromium VI and its compounds may be found at levels <10ppm (0.001%). Chromium VI ions are not intentionally introduced to this product, but may be present as an integral component of the dyestuff. Chromium VI is a chemical listed on California Prop. 65.

Regulatory References

29CFR 1910.1200 Federal Regulations (OSHA Standard)

#### US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed:

#### BUTANONE

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

# SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

#### SARA 313 Emission Reporting

The following ingredients are listed:

#### BUTANONE

50-70%

#### 2-METHYLPROPAN-2-OL

<1%

#### CAA Accidental Release Prevention

None of the ingredients are listed.

#### FDA - Essential Chemical

None of the ingredients are listed.

#### FDA - Precursor Chemical

None of the ingredients are listed.

#### OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

#### US State Regulations

#### California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

# California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

# California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

# California Directors List of Hazardous Substances

None of the ingredients are listed.

#### Massachusetts "Right To Know" List

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

# Rhode Island "Right To Know" List

The following ingredients are listed:

**BUTANONE** 

2-METHYLPROPAN-2-OL

**ETHANOL** 

# Minnesota "Right To Know" List

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

# New Jersey "Right To Know" List

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

# Pennsylvania "Right To Know" List

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

#### Inventories

#### **EU - EINECS/ELINCS**

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

# Canada - DSL/NDSL

All the ingredients are listed or exempt.

#### US - TSCA

The following ingredients are listed:

BUTANONE

2-METHYLPROPAN-2-OL

**ETHANOL** 

CELLULOSE ACETATE BUTYRATE

**TEGO VARIPLUS CA** 

#### US - TSCA 12(b) Export Notification

None of the ingredients are listed.

# Australia - AICS

All the ingredients are listed or exempt.

### Japan - MITI

All the ingredients are listed or exempt.

#### Korea - KECI

All the ingredients are listed or exempt.

#### China - IECSC

All the ingredients are listed or exempt.

#### Philippines - PICCS

All the ingredients are listed or exempt.

16. Other information

Key literature references and Croner's: Substances Hazardous to Health. Croner's: Emergency First Aid Guide.

sources for data

7/16/2015 Revision date

Revision

7/7/2015 Supersedes date

H225 Highly flammable liquid and vapor. Hazard statements in full H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

ACA HMIS Health rating.

Moderate Hazard. (2)

ACA HMIS Physical hazard

Normally stable. (0)

rating.

**ACA HMIS Personal** protection rating.

В

**ACA HMIS Flammability** 

Ignites easily. (3)

rating.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.