CRC

SAFETY DATA SHEET

1. Identification

Product identifier Upside Down Marking Paints - Fluorescent Orange

Other means of identification

Product code 18208

Recommended use Coating

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

 General Information
 215-674-4300

 Technical
 800-521-3168

Assistance

Customer Service 800-272-4620 **24-Hour Emergency** 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure

Aspiration hazard

Hazardous to the aquatic environment,

Category 3

Category 3

long-term hazard

OSHA defined hazards Not classified.

Label elements

Health hazards

Environmental hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not apply while equipment is energized. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this

label, increase ventilation or leave the area.

Response If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

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

Hazard(s) not otherwise

classified (HNOC)

Harmful to aquatic life with long lasting effects.

Material name: Upside Down Marking Paints - Fluorescent Orange 18208 Version #: 02 Revision date: 08-08-2016 Issue date: 11-19-2013

3. Composition/information on ingredients

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Chemical name	Common name and synonyms	CAS number	%
calcium carbonate		1317-65-3	10 - 20
propane		74-98-6	10 - 20
solvent naphtha (petroleum), light aliph.		64742-89-8	10 - 20
n-butane		106-97-8	5 - 10
distillates (petroleum), hydrotreated light		64742-47-8	3 - 5
isobutyl acetate		110-19-0	3 - 5

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical

attention if irritation develops and persists.

Eve contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, Ingestion

Direct contact with eyes may cause temporary irritation.

keep head low so that stomach content doesn't get into the lungs. Aspiration may cause

pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically.

treatment needed **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Small Fires: Powder. Water spray. Carbon dioxide (CO2). Dry sand.

Large Fires: Water spray. Alcohol resistant foam.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters Fire-fighting

equipment/instructions

Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

General fire hazards Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store in a well-ventilated place. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source.

8. Exposure controls/personal protection

Components	s for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
isobutyl acetate (CAS 110-19-0)	PEL	15 mg/m3 700 mg/m3	Total dust.
propane (CAS 74-98-6)	PEL	150 ppm 1800 mg/m3 1000 ppm	
US. ACGIH Threshold Lim	it Values		
Components	Туре	Value	
isobutyl acetate (CAS 110-19-0)	TWA	150 ppm	
n-butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
•		10 mg/m3	Total
distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
isobutyl acetate (CAS 110-19-0)	TWA	700 mg/m3	
·		150 ppm	
n-butane (CAS 106-97-8)	TWA	1900 mg/m3	
nranana (CAC 74 00 0)	T)A/A	800 ppm	
propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
logical limit values	No biological exposure limits noted for the ing		
propriate engineering ntrols	Good general ventilation (typically 10 air chan should be matched to conditions. If applicable or other engineering controls to maintain airbo	, use process enclosu	res, local exhaust ventilat

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or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Skin protection

Hand protection Wear protective gloves such as: Nitrile. Rubber.Other Wear appropriate chemical resistant clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Aerosol.
Color Orange.
Odor Aromatic.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -145.8 °F (-98.8 °C) estimated

Initial boiling point and boiling

range

-47.2 °F (-44 °C)

Flash point -2.2 °F (-19 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.7 %

Flammability limit - upper 10.9 %

(%)

Vapor pressure 2147.7 hPa estimated

Vapor density> 1 (air = 1)Relative density0.77 - 0.85Solubility (water)Not available.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature 410 °F (210 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.

Percent volatile 75 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Acids. Fluorine. Chlorine. Nitrates.

Hazardous decomposition

products

No hazardous decomposition products are known.

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11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation. **Eye contact** Direct contact with eyes may cause temporary irritation.

Ingestion May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Product Species Test Results

Upside Down Marking Paints - Fluorescent Orange

Acute Dermal

LD50 Rabbit 31572 mg/kg estimated

Inhalation

LC50 Rat 109 mg/l, 4 hours estimated

Oral

LD50 Rat 91817 mg/kg estimated

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components Species Test Results

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 45 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

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No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products

This material and its container must be disposed of as hazardous waste. If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Empty container can be recycled. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

Contaminated packaging Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name

Aerosols, flammable, limited quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable. Special precautions for user Not available.

Special provisions N82
Packaging exceptions 306
Packaging non bulk 304
Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable, limited quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

ERG Code 10L

Special precautions for user Not available.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1950

UN proper shipping name Transport hazard class(es)

AEROSOLS, LIMITED QUANTITY

Class 2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards

Marine pollutantNo.EmSF-D, S-USpecial precautions for userNot available.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

isobutyl acetate (CAS 110-19-0) Listed.

CERCLA Hazardous Substances: Reportable quantity

isobutyl acetate (CAS 110-19-0)

5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Safe Drinking Water Act

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

n-butane (CAS 106-97-8) propane (CAS 74-98-6)

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

isobutyl acetate (CAS 110-19-0) Low priority

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes Delayed Hazard - Yes **Hazard categories** Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

No

n-butane (CAS 106-97-8)

solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

calcium carbonate (CAS 1317-65-3) isobutyl acetate (CAS 110-19-0) n-butane (CAS 106-97-8) propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

calcium carbonate (CAS 1317-65-3) isobutyl acetate (CAS 110-19-0) n-butane (CAS 106-97-8) propane (CAS 74-98-6)

US. Rhode Island RTK

isobutyl acetate (CAS 110-19-0) n-butane (CAS 106-97-8) propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

isobutyl acetate (CAS 110-19-0) ethylbenzene (CAS 100-41-4) calcium carbonate (CAS 1317-65-3) distillates (petroleum), hydrotreated light (CAS 64742-47-8) n-butane (CAS 106-97-8) propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

Volatile organic compounds (VOC) regulations

EPA

Aerosol coatings (40 Compliant

CFR 59, Subpt. E)

State

Aerosol coatings This product is regulated as a Ground Traffic and Marking Coating. This product is compliant for

sale in all 50 states.

Maximum incremental 0.57

reactivity (MIR)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date11-19-2013Revision date08-08-2016Prepared byAllison Cho

Version # 02

United States & Puerto Rico

HMIS® ratings
Health: 1
Flammability: 4
Physical hazard: 0

Personal protection: B

NFPA ratings Health: 1

Flammability: 4 Instability: 0

Not available.

NFPA ratings

Further information



Disclaimer The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Industries, Inc..

Revision Information This document has undergone significant changes and should be reviewed in its entirety.

Yes