# MATERIAL SAFETY DATA SHEET

**2334**
**11 00**

**DATE OF PREPARATION**
Dec 20, 2013

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NUMBER**
2334
**PRODUCT NAME**
KRYLON® Fusion for Plastic®, Buttercream
**MANUFACTURER'S NAME**
Krylon Products Group
Cleveland, OH 44115

**Telephone Numbers and Websites**

| | |
|---|---|
| **Product Information** | (800) 247-3268<br>www.krylon.com |
| **Regulatory Information** | (216) 566-2902 |
| **Medical Emergency** | (216) 566-2917 |
| **Transportation Emergency*** | (800) 424-9300 |
| **for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)* | |

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

| % by Weight | CAS Number | Ingredient | Units | Vapor Pressure |
|---|---|---|---|---|
| **17** | **74-98-6** | **Propane** | | |
| | | ACGIH TLV | 1000 PPM | 760 mm |
| | | OSHA PEL | 1000 PPM | |
| **8** | **106-97-8** | **Butane** | | |
| | | ACGIH TLV | 1000 PPM | 760 mm |
| | | OSHA PEL | 800 PPM | |
| **4** | **64742-89-8** | **V. M. & P. Naphtha** | | |
| | | ACGIH TLV | 300 PPM | 12 mm |
| | | OSHA PEL | 300 PPM | |
| | | OSHA PEL | 400 PPM STEL | |
| **14** | **108-88-3** | **Toluene** | | |
| | | ACGIH TLV | 20 PPM | 22 mm |
| | | OSHA PEL | 100 ppm (Skin) | |
| | | OSHA PEL | 150 ppm (Skin) STEL | |
| **0.5** | **100-41-4** | **Ethylbenzene** | | |
| | | ACGIH TLV | 20 PPM | 7.1 mm |
| | | OSHA PEL | 100 PPM | |
| | | OSHA PEL | 125 PPM STEL | |
| **3** | **1330-20-7** | **Xylene** | | |
| | | ACGIH TLV | 100 PPM | 5.9 mm |
| | | ACGIH TLV | 150 PPM STEL | |
| | | OSHA PEL | 100 PPM | |
| | | OSHA PEL | 150 PPM STEL | |
| **33** | **67-64-1** | **Acetone** | | |
| | | ACGIH TLV | 500 PPM | 180 mm |
| | | ACGIH TLV | 750 PPM STEL | |
| | | OSHA PEL | 1000 PPM | |
| **1** | **108-10-1** | **Methyl Isobutyl Ketone** | | |
| | | ACGIH TLV | 50 PPM | 16 mm |
| | | ACGIH TLV | 75 PPM STEL | |
| | | OSHA PEL | 50 PPM | |
| | | OSHA PEL | 75 PPM STEL | |
| **8** | **13463-67-7** | **Titanium Dioxide** | | |
| | | ACGIH TLV | 10 mg/m3 as Dust | |
| | | OSHA PEL | 10 mg/m3 Total Dust | |
| | | OSHA PEL | 5 mg/m3 Respirable Fraction | |

## SECTION 3 — HAZARDS IDENTIFICATION

| HMIS Codes | |
|---|---|
| Health | 2* |
| Flammability | 3 |
| Reactivity | 0 |

**ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE**

**EYES:** Irritation.
**SKIN:** Prolonged or repeated exposure may cause irritation.
**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the cardiovascular system
- the reproductive system

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

None generally recognized.

**CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.
**SKIN:** Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.
**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

| FLASH POINT | LEL | UEL | EXTINGUISHING MEDIA |
|---|---|---|---|
| Propellant < 0 °F | 0.9 | 12.8 | Carbon Dioxide, Dry Chemical, Foam |

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.
Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

**STORAGE CATEGORY**

Not Available

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| **PRODUCT WEIGHT** | 6.48 lb/gal | 776 g/l |
| **SPECIFIC GRAVITY** | 0.78 | |
| **BOILING POINT** | <0 - 325 °F | <-18 - 162 °C |
| **MELTING POINT** | Not Available | |
| **VOLATILE VOLUME** | 90% | |
| **EVAPORATION RATE** | Faster than ether | |
| **VAPOR DENSITY** | Heavier than air | |
| **SOLUBILITY IN WATER** | Not Available | |
| **pH** | 7.0 | |

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**

Volatile Weight 48.42% Less Water and Federally Exempt Solvents

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY — Stable**

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

| CAS No. | Ingredient Name | | | | |
|---|---|---|---|---|---|
| **74-98-6** | **Propane** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | Not Available |
| **106-97-8** | **Butane** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | Not Available |
| **64742-89-8** | **V. M. & P. Naphtha** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | Not Available |
| **108-88-3** | **Toluene** | | | | |
| | | LC50 | RAT | 4HR | 4000 ppm |
| | | LD50 | RAT | | 5000 mg/kg |
| **100-41-4** | **Ethylbenzene** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | 3500 mg/kg |
| **1330-20-7** | **Xylene** | | | | |
| | | LC50 | RAT | 4HR | 5000 ppm |
| | | LD50 | RAT | | 4300 mg/kg |
| **67-64-1** | **Acetone** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | 5800 mg/kg |
| **108-10-1** | **Methyl Isobutyl Ketone** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | 2080 mg/kg |
| **13463-67-7** | **Titanium Dioxide** | | | | |
| | | LC50 | RAT | 4HR | Not Available |
| | | LD50 | RAT | | Not Available |

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**

May be classed as LTD. QTY. OR ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

**Canada (TDG)**

May be classed as LTD. QTY. OR ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

**IMO**

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

**IATA/ICAO**

UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

## SECTION 15 — REGULATORY INFORMATION

**SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION**

| CAS No. | CHEMICAL/COMPOUND | % by WT | % Element |
|---|---|---|---|
| 108-88-3 | Toluene | 14 | |
| 100-41-4 | Ethylbenzene | 0.4 | |
| 1330-20-7 | Xylene | 3 | |
| 108-10-1 | Methyl Isobutyl Ketone | 1 | |

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.**