

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: UKK – UNIVERSAL KANDY KONCENTRATE
Product Name: UNIVERSAL KANDY KONCENTRATE
Product Use: Paint product.
Date Published: 5/9/2007

Company Identification

TCP Global
6695 RASHA STREET
SAN DIEGO, CA 92121
Manufacturer's Phone: 1-858-909-2110

24-Hour Medical Emergency

US Phone (CHEMTREC): 1-800-424-9300
International Phone (CHEMTREC): 1-703-527-3887

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS #	Approx Wt%	Chemical name
METHYL ETHYL KETONE 78-93-3	40 - 70	Methyl ethyl ketone
PROPYLENE GLYCOL MONOMETHYL ETHER 107-98-2	40 - 70	
DYE PIGMENT	1 – 10	Solvent Dye Pigment

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately

concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact. Repeated exposure to vapors above recommended exposure limits (see

Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

4. FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 30 Degrees F (-1 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.8

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke

while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces.

Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber or butyl rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Common Name CAS #	Approx Wt%	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
METHYL ETHYL KETONE 78-93-3	40 - 70	200 ppm	300 ppm	200 ppm	300 ppm
PROPYLENE GLYCOL MONOMETHYL ETHER 107-98-2	40 - 70	100 ppm	150 ppm	100 ppm	150 ppm

ACGIH Threshold Limit Value (TLV's)

Common Name CAS #	Approx Wt%	Ontario TWA	Ontario STEL
METHYL ETHYL KETONE 78-93-3	40 - 70	200 ppm	300 ppm
PROPYLENE GLYCOL MONOMETHYL ETHER 107-98-2	40 - 70	100 ppm	150 ppm

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit (1989 Vacated values); IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C-Ceiling Limit; S-Potential Skin Absorption; R-Respirable Dust]

Additional Information Not applicable.

9. PHYSICAL PROPERTIES

SPECIFIC GRAVITY: .911

PHYSICAL STATE: Liquid

Percent Solids: 15.86

Percent Volatile by Volume: 89.280

pH: Not available.

ODOR THRESHOLD: Not available.

Vapor Pressure: 43.4 mmHg

ODOR/APPEARANCE: Non-viscous liquid with an odor characteristic of the ingredients listed in Section 2.

VAPOR DENSITY: HEAVIER THAN AIR

Evaporation Rate: 411

BOILING POINT OR RANGE: 172 - 248Degrees F

Freezing Point or Range: Not Applicable.

Melting Point or Range(°C): Not Applicable.

Partition coefficient (noctanol/ water): Not Applicable.

WEIGHT PER GALLON: 7.59 (U.S.) / 9.1 (IMPERIAL)

10. STABILITY AND REACTIVITY

Stability:

This product is stable.

Conditions to Avoid:

None known.

Incompatibility:

Strong alkalis, strong mineral acids or strong oxidizing agents.

Hazardous Polymerization:

None anticipated.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, oxides of chromium.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material CAS #	Approx Wt%	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
METHYL ETHYL KETONE 78-93-3	40 - 70	2.74 g/kg	13.00 g/kg	Not Available
PROPYLENE GLYCOL MONOMETHYL ETHER 107-98-2	40 - 70	5.20 g/kg	13.00 g/kg	54.60 mg/l 4 hr
Dye Pigment	10 - 10	10.00 g/kg	Not Available	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Embryotoxin - Teratogen - Brain - Central nervous system - Lung

Mutagens:

No information is available.

Teratogens:

No information is available.

Carcinogens:

No information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT
NOS Technical Name: None
Hazard Class: 3
Subsidiary Class(es): None
UN ID Number: UN1263
Packing Group: II

USA - RQ Hazardous Substances: Methyl Ethyl Ketone

USA-RQ Hazardous Substance Threshold Ship Weight: Methyl Ethyl Ketone>11887.79 Pounds

Marine Pollutant Name: None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

15. REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material CAS #	Approx Wt%	CERCLA HS - RQ (LBS)	SARA EHSTPQ (LBS)	SARA 313
METHYL ETHYL KETONE 78-93-3	40 - 70	5000 pounds	Not Listed	Not Listed
PROPYLENE GLYCOL MONOMETHYL ETHER 107-98-2	40 - 70	Not Listed	Not Listed	Not Listed
Dye Pigment	10 - 10	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute): Yes

Health (chronic): No

Fire (flammable): Yes

Pressure: No

Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH American Conference of Governmental Industrial Hygienists; NTP National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA Occupational Safety and Health Administration.

16. OTHER INFORMATION

Hazard Rating Systems

NFPA Rating: 2 30

HMIS Rating: 2 30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe,

*=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association; Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. TCP Global assumes no obligation or liability for use of this information.

UNLESS TCP GLOBAL AGREES OTHERWISE IN WRITING, TCP GLOBAL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING

WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. TCP GLOBAL WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.