

Material Safety Data Sheet B-4 BRUSH CLEANER Page 1 of 1

Revised Date:11/04/2004 | Replaces Date: 02/20/2001

MSDS#: KIA022001-B4C

Product Name: B-4 Brush Cleaner

MSDS Approval

Date:

02/20/2001

Chemical

Name:

N/A MSDS Prepared by: BSQ

Family: Solvent **Manufacturer:** KEYSTONE INDUSTRIES

616 Hollywood Ave. Cherry Hill, NJ 08002

Product Use: Cleansing Agent **Emergency Phone Numbers:** (800) 535 - 5053

Product #: 1001774 **Information Contacts:** (856)-663-4700

Chemical Identity CAS Numbers EINECS# INCI Name Exposure Limits Carcinogen %

OSHA ACGIH

TWA/STEL TWA/STEL IARC/NTP/OSHA

Ethyl Acetate 141-78-6 205-500-4 Ethyl Acetate 400 ppm 400 ppm Not Listed 55-65

n-Butyl Acetate 123-86-4 204-658-1 Butyl Acetate 150 ppm 150 ppm Not Listed 15-25

Isopropyl Alcohol 67-63-0 200-661-7 Isopropyl Alcohol 400 ppm 400 ppm 3/no/no 5-10

Methyl Ethyl Ketone 78-93-3 201-159-0 MEK 200 ppm 200 ppm Not Listed 1-5

Ethanol 64-17-5 200-578-6 Alcohol 1000ppm 1000ppm Not Listed 1-5

N/E - None Established

N/R - Not Reviewed

N/DA - No Data Available

N/A - Not Applicable

Hazard Symbols: F, Xi **Risk Phrases:** R11, R20, R36/37/38 **Safety Phrases:** S7/9, S16, S26, S33, S36/37, S45, S61

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- **Flammable liquid and vapor!**
- May cause allergic skin reaction.
- May cause eye irritation.
- May cause respiratory tract irritation.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry Inhalation, skin contact, eye contact

Eye Exposure causes eye irritation. Symptoms include stinging, tearing, redness and swelling.

Skin Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns.

Ingestion Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing

large amounts may be harmful. This material can get into the lungs during swallowing or vomiting.

Inhalation Vapor and mist are irritating to mucous membrane. Breathing small amounts during normal handling

is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Sub-Chronic Effects It may cause headaches, nausea, vomiting and narcotic effect if over-exposed.

NOTE: Refer to Section 11, Toxicological Information for Details

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First Aid for Eye If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water

while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

First Aid for Skin Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention.

First Aid for Inhalation Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.

First Aid for Ingestion If individual is drowsy or unconscious. do not give anything by mouth; place individual on the left side

with the head down. Seek medical attention for advice about whether to induce vomiting. If possible, do

Material Safety Data Sheet B-4 BRUSH CLEANER Page 2 of 2

Revised Date: 11/04/2004 | Replaces Date: 02/20/2001

MSDS#: KIA022001-B4C

not leave individual unattended.

Flash Point (°F/°C) Flammable Limit (vol%) Auto-ignition Temperature (vol%)

TAG Closed: 68°F/20°C 400 ppm N/DA

Method:

Extinguishing Media: Foam, dry chemical, cold water spray.

Fire Fighting

Instructions:

Wear self-contained breathing apparatus and protective clothing. USE WATER WITH CAUTION. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a safe distance and protected location.

Unusual Hazards: Flammable. When exposed to heat and flame, material is a fire explosion hazard. It may produce

toxic products CO, Carbon dioxide and oxides of nitrogen. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Spill or Release

Procedures

Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into

retaining containers. Place containers in a well ventilated area. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid

in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a

chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. EU Regulations require the consultation of Directive 98/24/EC. If a leak or spill has not ignited, use water spray to

disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

Handling Keep containers cool and dry. Keep away from heat, light and ignition sources. Avoid breathing high vapor

concentrations. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation.

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Wash thoroughly after handling.

Storage Store in well ventilated area. Store @ 70°F+/- 15°F (21°C+/-8°C), allow some air space above liquid level.

Keep containers closed while not in use.

Explosion Hazard Vapors are heavier than air and may travel along the ground or may be move by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Personal Protective Equipment

General To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a

hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product . Provide eye wash stations and safety showers. Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Eye/ Face Protection Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

Skin Protection Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protection

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided

by a NIOSH/MSHA approved EN 149 approved full-facepiece

Material Safety Data Sheet B-4 BRUSH CLEANER Page 3 of 3

Revised Date: 11/04/2004 | Replaces Date: 02/20/2001

MSDS#: KIA022001-B4C

by air purifying respirators is limited. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Appearance Odor & Odor Threshold PH Specific Gravity Viscosity % Volatile

Clear mobile liquid Fruity, pungent, mix odor NA (H2O=1):0.98 N/DA W/W %: 99+

Boiling Point/

Decomposition

Octanol/Water

Vapor

Vapor

Evaporation

Ignition

Solubility

Freezing Point

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Temperature Partitioning

Coefficient

Log Po/w

Pressure: Density Rate In Water

(20°C)

170°F(77°C) N/DA N/DA N/A (Air=1): 1 N/A N/A Insoluble

Flash Point (°F/°C) Flammable Limit (vol%) Auto-ignition Temperature (vol%)

TAG Closed: 68°F/20°C 400 ppm N/DA

Stability: Incompatibility (Materials to Avoid):

Stable Avoid oxidizing agents, acids & bases (heat)

Hazardous Decomposition Products: Hazardous Polymerization:

Heated material produce NO₂ , CO₂ , CO Will not occur

Conditions to Avoid:

Heat, flame, ignition sources.

Acute Oral Toxicity Acute Dermal Toxicity Acute Inhalation Toxicity Irritation - skin Irritation - Eye

No information available No information available No information available No information available No information available
Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization Mutagenicity Sub-chronic Toxicity

No information available No information available No information available

Ecotoxicological Information

Acute Toxicity

To Fish

Acute Toxicity

to Invertebrates

Acute Toxicity

to Algae

Bioconcentration Toxicity to Sewage

Bacteria

No information available No information available No information available No information available No information available

Chemical Fate Information

Biodegradability No information available

Chemical Oxygen Demand No information available

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility.

Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU

Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

DOT (49 CFR 172)

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, n-butyl acetate), 3, UN1993, PGII

Identification Number: UN1993

Marine Pollutant: No

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Special Provisions: T8, T31

Material Safety Data Sheet B-4 BRUSH CLEANER Page 4 of 4

Revised Date: 11/04/2004 | Replaces Date: 02/20/2001

MSDS#: KIA022001-B4C

Emergency Response Guidebook (ERG) #: 128

IATA (DGR):

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, n-butyl acetate), 3, UN1993, PGII

Class or Division: 3

UN or ID Number: UN1993

Packaging Instructions:

Emergency Response Guidance (ICAO)#:

IMO (IMDG):

Proper Shipping Name: Flammable liquids, n.o.s., (ethyl acetate, n-butyl acetate), 3, UN1993, PGII

Class or Division: 3.2

UN or ID Number: UN1993

Special Provisions & Stowage/Segregation: None

Emergency Schedule (EmS)#:

Other Information: Flash point = 20°C

US Federal Regulations

Clean Air Act: HAP/ODS This product contains the following hazardous air pollutants (HAPs):

- Methyl Ethyl Ketone, CAS# 78-93-3

There are no ODS's (ozone depleting substances) as defined by the U. S. Clean Air Act.

Clean Water Act: Priority Pollutant This product contains the following chemicals listed under the U. S.

Clean Water Act

Priority Pollutant and Hazardous Substance List:

- Butyl Acetate, CAS# 123-86-4

FDA: Food Packaging Status This product has not been cleared by the FDA for use in food packaging and / or

other applications as an indirect food additive.

Occupational Safety and Health Act This product is considered to be hazardous under the OSHA Hazard Communication

Standard. Its hazards are:

- Immediate (acute) health hazard
- Fire hazard

RCRA This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261):

- Ethyl Acetate CAS# 141-78-6, RCRA Code U112
- Methyl Ethyl Ketone, CAS# 78-93-3, RCRA Codes D035, U159
- May contain Characteristic of Ignitability: RCRA Code: D001

SARA Title III: Section 302 (RQ) This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Title III: Section 302 (TPQ) This product contains chemicals regulated under Section 302 as extremely hazardous

chemicals for emergency release notification ("CERCLA" List):

- Ethyl Acetate, CAS# 141-78-6, RQ (Lbs): 5000
- Butyl Acetate, CAS# 123-86-4, RQ (Lbs): 5000
- Methyl Ethyl Ketone, CAS# 78-93-3, RQ (Lbs): 5000

SARA Title III: Section 311-312: This product is considered to be hazardous under the OSHA Hazard Communication

Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are:

- Immediate (acute) health hazard
- Fire hazard

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SARA Title III: Section 313: This product contains the following chemicals which are subject to the reporting

requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Isopropyl Alcohol, CAS# 67-63-0
- Methyl Ethyl Ketone, CAS# 78-93-3

TSCA Section 8(b): Inventory:

TSCA Significant New Use Rule:

This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

None of the chemicals in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law:

California No Significant Risk

Level:

Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

NONE

Material Safety Data Sheet B-4 BRUSH CLEANER Page 5 of 5

Revised Date: 11/04/2004 | Replaces Date: 02/20/2001

MSDS#: KIA022001-B4C

MA Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

NJ Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

PA Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

FL Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

MN Right-to-Know Law: Ethyl Acetate CAS #141-78-6, Isopropyl Alcohol CAS #67-63-0, Butyl Acetate CAS #123-86-4, Methyl

Ethyl Ketone CAS 78-93-3

International Regulations

CDSL: Canadian Inventory

(on Canadian Transitional List)

Ethyl Acetate CAS #141-78-6 is on the DSL list. WHMIS = B2, D2B

Isopropyl Alcohol CAS #67-63-0 is on the DSL list. WHMIS = B2, D2B

Butyl Acetate CAS #123-86-4 is on the DSL list. WHMIS = B2, D1B, D2B

Methyl Ethyl Ketone CAS 78-93-3 is on the DSL list. WHMIS = B2, D2A

EINECS: European Inventory: **B-4 Brush Cleaner:**

- HAZARD SYMBOLS: **Xn, F:** Harmful, Highly Flammable

- RISK PHRASES: **R11, highly flammable, R20: Harmful by inhalation, R36/37/38:**

Irritating to eyes, respiratory system and skin

- SAFETY PHRASES: **S7/9:** keep container tightly closed and in a well ventilated place,

S16: keep away from sources of ignition- no smoking, **S24/25:** In case of contact with

eyes, rinse immediately with plenty of water and seek medical advise, S33: take

precautionary measures against static discharges, S37/39: wear suitable protective

clothing & gloves, S45: In case of accident or if you feel unwell, seek medical advise

immediately (show the label where possible), S61: Avoid release to the environment.

Refer to special instruction/Safety data sheets

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Hazard Rating System (Pictograms)

NFPA: HMIS:

2 3 1

Revised Sections since Last Version: Overall format and content change to all sections

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3

1 2

Flammability

Reactivity Health