

TRU SEAL

SDS Number: P-001

Revision Date: 7/20/15

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

NIKE-TECH, INC.
9901 FM 1807
ALVARADO, Texas 76009

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Product Name: TRU SEAL
Revision Date: 7/20/15
SDS Number: P-001
Product Code: 31-10422
Product Use: Cadaver Tissue Sealer

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

- Health, Aspiration hazard, 1
- Health, Reproductive toxicity, 1 B
- Health, Respiratory or skin sensitization, 1 Respiratory
- Physical, Flammable Liquids, 2
- Environmental, Hazards to the aquatic environment - Acute, 1
- Environmental, Hazards to the aquatic environment - Chronic, 1
- Health, Skin corrosion/irritation, 2
- Health, Reproductive toxicity, 2
- Health, Specific target organ toxicity - Repeated exposure, 2
- Health, Serious Eye Damage/Eye Irritation, 2 A
- Health, Serious Eye Damage/Eye Irritation, 2 B
- Physical, Flammable Liquids, 3
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Skin corrosion/irritation, 3
- Physical, Flammable Liquids, 4
- Health, Acute toxicity, 4 Inhalation
- Health, Acute toxicity, 4 Oral
- Health, Acute toxicity, 5 Dermal
- Health, Acute toxicity, 5 Oral
- Environmental, Hazards to the aquatic environment - Acute, 2

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

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**GHS Hazard Statements:**

- H304 - May be fatal if swallowed and enters airways
- H360 - May damage fertility or the unborn child
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H225 - Highly flammable liquid and vapor
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- H315 - Causes skin irritation
- H361 - Suspected of damaging fertility or the unborn child
- H373 - May cause damage to organs through prolonged or repeated exposure
- H319 - Causes serious eye irritation
- H320 - Causes eye irritation
- H226 - Flammable liquid and vapor
- H336 - May cause drowsiness or dizziness
- H316 - Causes mild skin irritation
- H227 - Combustible liquid
- H332 - Harmful if inhaled
- H302 - Harmful if swallowed
- H313 - May be harmful in contact with skin
- H303 - May be harmful if swallowed
- H401 - Toxic to aquatic life

GHS Precautionary Statements:

- P102 - Keep out of reach of children.
- P103 - Read label before use.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ventilating/light/equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash _ thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P281 - Use personal protective equipment as required.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352 - IF ON SKIN: Wash with soap and water.

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- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P308+313 - IF exposed or concerned: Get medical advice/attention.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 - Specific treatment (see _ on this label).
- P322 - Specific measures (see _ on this label).
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P332+313 - If skin irritation occurs: Get medical advice/attention.
- P337+313 - Get medical advice/attention.
- P342+311 - Call a POISON CENTER or doctor/physician.
- P362 - Take off contaminated clothing and wash before reuse.
- P370+378 - In case of fire: Use _ for extinction.
- P381 - Eliminate all ignition sources if safe to do so.
- P391 - Collect spillage.
- P391 - Collect spillage.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P403+235 - Store in a well ventilated place. Keep cool.
- P405 - Store locked up.
- P412 - Do not expose to temperatures exceeding 50 °C/122 °F
- P501 - Dispose of contents/container to _
- CGA-MP01 - IF ACCIDENTLY INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS

- Route of Entry:** Absorption, Inhalation, and Ingestion
- Target Organs:** HEALTH HAZARDS (ACUTE AND CHRONIC):
 - ACUTE: Shortness of breath, burning sensation or respiratory passages, nausea, headache.
 - CHRONIC: Narcosis, kidney and liver dysfunction with possible central nervous system effects.
- Inhalation:** INHALATION HEALTH RISKS AND SYMTOMS OF EXPOSURE:
 - Dizziness, headache, nausea, shortness of breath, solvent taste in mouth, narcosis, euphoria, or unconsciousness.
- Skin Contact:** SKIN ABSORPTION HEALTH RISKS AND SYSMPTIOMS OF EXPOSURE:
 - Prolonged or repeated unprotected skin contact may cause defatting, drying of the skin, or dermatitis.
- Eye Contact:** EYE CONTACT HEALTH RISK AND SYMTOMS OF EXPOSURE:
 - Buring sensation with reddening of the eyes. Irritation, rash around the eyes or burning sensation of the eyes.

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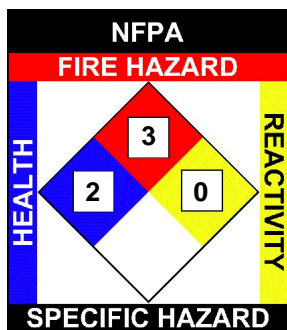
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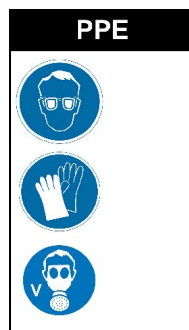
NFPA: Health = 2, Fire = 3, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 2(Chronic), Fire = 3, Physical Hazard = 0

HMIS PPE: G - Safety Glasses, Gloves, Vapor Respirator



HMIS	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	G



3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

COMPOSITION/INFORMATION ON INGREDIENTS:

Cas#	%	Chemical Name
67-63-0	10-15%	Isopropanol
71-36-3	1-5%	1-Butanol
108-88-3	15-20%	Toluene
8030-30-6	10-15%	Naphtha
108-10-1	5-10%	Methyl isobutyl ketone
141-78-6	10-15%	Ethyl acetate
117-81-7	5-10%	Di(2-ethylhexyl) phthalate
67-64-1	1-5%	Acetone

4 FIRST AID MEASURES

- Inhalation:** Ensure supply of fresh air. In the event of symptoms seek medical advice.
- Skin Contact:** In case of contact with skin wash off with soap and water. In the event of symptoms seek medical advice.
- Eye Contact:** In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical advice.
- Ingestion:** Thoroughly clean the mouth with water. In the event of symptoms seek medical advice.

5 FIRE FIGHTING MEASURES

- Flammability:** Flammable liquid and vapor. May be ignited by open flame. Vapor may be heavier than air and may collect in confined and low-lying areas.
 - Flash Point:** 36 Deg F
 - Flash Point Method:** TCC
 - LEL:** .9
 - UEL:** 12.8
- Suitable extinguishing media: Foam, carbon dioxide (CO2), dry powder, water spray. Firefighters should wear

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self-contained breathing apparatus. Pressure may build up in closed container that are exposed to heat and fire. Solvent vapors are heavier than Air and may travel a considerable distance along the ground level to a ignition source and flash black.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures;
Use personal protective equipment.

6.2 Environmental precautions:
Do Not Allow to enter drains or waterways
Do not discharge into the soil/ground.

6.3 Methods and material for containment and cleaning up
Ventilate the area, Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Use only non-sparking tools.
Take up with absorbent material (eg. sand, universal binder). Clean contaminated floors and objects thoroughly while observing environmental regulations.
Dispose of absorbed material in accordance with the regulations, State and Federal

7 HANDLING AND STORAGE

Handling Precautions: 7.1 Safe Handling

Advice on safe handling:
No special measure necessary if stored and handled as prescribed
Use only in well-ventilated areas. In case of insufficient ventilation wear suitable respiratory equipment.
Wear respiratory protection when spraying.
No sparking tools should be used. To avoid ignition of vapor by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from acids and other incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapor and can be dangerous).

Hygiene measures:
Do not eat, drink or smoke when working.
Wash hands before breaks and after work.
Remove soiled or soaked clothing immediately.

General protective measures:
Avoid contact with eyes and skin
Wear protective gloves and eye/face protection. Avoid breathing vapor or mist. Keep away from heat, sparks and open flame. No Smoking !

Do not inhale gases/vapors/aerosols.

Storage Requirements: 7.2 Conditions for safe storage, including any incompatibilities

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Prevention of fire and explosion:

Information - Store in cool/well ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage.

Keep away from acids and other incompatibles. Keep containers closed when not in use.

Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Storage:

Information - Use approved metal containers

Requirements - Keep container tightly closed

Do not store below <5 C (41 F)

FLAMMABLE LIQUID !

Do not keep at temperature above 35 C (95 F)

For Industrial Use Only !

KEEP OUT OF THE REACH OF CHILDREN

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: 8.1 Control parameters

Use only in well-ventilated areas. Apply technical measure to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Personal Protective Equipment: Isopropanol (67-63-0) [10-15%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested: Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 60 min Material tested: Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of

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the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

1-Butanol (71-36-3) [1-5%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min Material tested:Camatril (KCL 730 / Aldrich Z677442, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 58 min Material tested:Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are

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appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Toluene (108-88-3) [15-20%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M)

Splash contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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Methyl isobutyl ketone (108-10-1) [5-10%]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 212 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Ethyl acetate (141-78-6) [10-15%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break

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through time: 113 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Di(2-ethylhexyl) phthalate (117-81-7) [5-10%]

Personal protective equipment

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 480 min Material tested: Dermatril P (KCL 743 / Aldrich Z677388, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 120 min Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at

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the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Acetone (67-64-1) [1-5%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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Isopropanol (67-63-0) [10-15%]

Components with workplace control parameters

TWA 200 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation
Central Nervous System impairment
Not classifiable as a human carcinogen

STEL 400 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation
Central Nervous System impairment
Not classifiable as a human carcinogen

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for
980 mg/m³ Air Contaminants - 1910.1000

STEL 500 ppm USA. OSHA - TABLE Z-1 Limits for
1,225 mg/m³ Air Contaminants - 1910.1000

TWA 400 ppm USA. Occupational Exposure Limits
980 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 400 ppm USA. NIOSH Recommended
980 mg/m³ Exposure Limits

ST 500 ppm USA. NIOSH Recommended
1,225 mg/m³ Exposure Limits

1-Butanol (71-36-3) [1-5%]

Components with workplace control parameters

TWA 20 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation

C 50 ppm USA. OSHA - TABLE Z-1 Limits for
150 mg/m³ Air Contaminants - 1910.1000

Skin notation

TWA 100 ppm USA. Occupational Exposure Limits
300 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

C 50 ppm USA. NIOSH Recommended
150 mg/m³ Exposure Limits

Potential for dermal absorption

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Toluene (108-88-3) [15-20%]

Components with workplace control parameters

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for
375 mg/m³ Air Contaminants - 1910.1000

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for
560 mg/m³ Air Contaminants - 1910.1000

TWA 200 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2
Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2
Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2
Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values
(TLV)

Visual impairment
Female reproductive
Pregnancy loss
2010 Adoption
Substances for which there is a Biological Exposure Index or Indices
(see BEI section)
Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended
375 mg/m³ Exposure Limits

ST 150 ppm USA. NIOSH Recommended
560 mg/m³ Exposure Limits

Methyl isobutyl ketone (108-10-1) [5-10%]

Components with workplace control parameters

TWA 50 ppm USA. ACGIH Threshold Limit Values (TLV)

STEL 75 ppm USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation Headache Dizziness 2010 Adoption Substances for which there is
a Biological Exposure Index or Indices (see BEI section) Confirmed animal carcinogen with
unknown relevance to humans

TWA 50 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
205 mg/m³ 1910.1000

STEL 75 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
300 mg/m³ 1910.1000

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TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z- 1
410 mg/m3 Limits for Air Contaminants
The value in mg/m3 is approximate.

TWA 20 ppm USA. ACGIH Threshold Limit Values (TLV)
Upper Respiratory Tract irritation Headache Dizziness 2010 Adoption Substances for which there is
a Biological Exposure Index or Indices (see BEI section) Confirmed animal carcinogen with
unknown relevance to humans

TWA 50 ppm USA. NIOSH Recommended Exposure Limits
205 mg/m3

ST 75 ppm USA. NIOSH Recommended Exposure Limits
300 mg/m3

Ethyl acetate (141-78-6) [10-15%]

Components with workplace control parameters

TWA 400 ppm USA. ACGIH Threshold Limit Values
(TLV)
Eye & Upper Respiratory Tract irritation

TWA 400 ppm USA. OSHA - TABLE Z-1 Limits for
1,400 mg/m3 Air Contaminants - 1910.1000

TWA 400 ppm USA. Occupational Exposure Limits
1,400 mg/m3 (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m3 is approximate.

TWA 400 ppm USA. NIOSH Recommended
1,400 mg/m3 Exposure Limits

Di(2-ethylhexyl) phthalate (117-81-7) [5-10%]

Components with workplace control parameters

TWA 5 mg/m3 USA. ACGIH Threshold Limit Values
(TLV)
Lower Respiratory Tract irritation
Confirmed animal carcinogen with unknown relevance to humans

TWA 5 mg/m3 USA. NIOSH Recommended
Exposure Limits
Potential Occupational Carcinogen
See Appendix A

ST 10 mg/m3 USA. NIOSH Recommended
Exposure Limits
Potential Occupational Carcinogen
See Appendix A

TWA 5 mg/m3 USA. Occupational Exposure Limits
(OSHA) - Table Z-1 Limits for Air

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Contaminants

TWA 5 mg/m³ USA. OSHA - TABLE Z-1 Limits for
Air Contaminants - 1910.1000

STEL 10 mg/m³ USA. OSHA - TABLE Z-1 Limits for
Air Contaminants - 1910.1000

Acetone (67-64-1) [1-5%]

Components with workplace control parameters

TWA 500 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation

Central Nervous System impairment

Hematologic effects

Substances for which there is a Biological Exposure Index or Indices
(see BEI section)

Not classifiable as a human carcinogen

STEL 750 ppm USA. ACGIH Threshold Limit Values
(TLV)

Eye & Upper Respiratory Tract irritation

Central Nervous System impairment

Hematologic effects

Substances for which there is a Biological Exposure Index or Indices
(see BEI section)

Not classifiable as a human carcinogen

STEL 1,000 ppm USA. OSHA - TABLE Z-1 Limits for
2,400 mg/m³ Air Contaminants - 1910.1000

The acetone STEL does not apply to the cellulose acetate fiber
industry. It is in effect for all other sectors.

TWA 1,000 ppm USA. Occupational Exposure Limits
2,400 mg/m³ (OSHA) - Table Z-1 Limits for Air
Contaminants

The value in mg/m³ is approximate.

TWA 250 ppm USA. NIOSH Recommended
590 mg/m³ Exposure Limits

TWA 750 ppm USA. OSHA - TABLE Z-1 Limits for
1,800 mg/m³ Air Contaminants - 1910.1000

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear

Physical State: Liquid

Odor Threshold: Not measured

Spec Grav./Density: .85 G/ML @ 72 Deg F

Odor: Slight alcohol odor

Molecular Formula: N/A

Solubility: Non soluble

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Viscosity: 140-150 KU @ 75 Deg F
Boiling Point: Not Available
Flammability: Flammable
Vapor Pressure: 45 mm Hg @ 73 Deg F
pH: N/A

Percent Volatile: 76% by Volume
Flash Point: 36 Deg F TCC
Vapor Density: Heavier Than Air 3.0
VOC: 5.25 lbs/Gallon
UFL/LFL: 12.8% / .9 %

10 STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: Keep away from excessive heat or open flame. Store below maximum storage temperature.
Materials to Avoid: Strong oxidizing agents; Acids, Bases, alkali metals, halogenated compounds.
Hazardous Decomposition: BY FIRE: Carbon oxides; aldehydes; nitrogen oxides (NOx); unburned alcohols, metal oxides, other unidentified organic compounds.
Hazardous Polymerization: Hazardous Polymerization will not occur.

11 TOXICOLOGICAL INFORMATION

Isopropanol (67-63-0) [10-15%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,045 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Somnolence (general depressed activity).

LC50 Inhalation - rat - 8 h - 16000 ppm

LD50 Dermal - rabbit - 12,800 mg/kg

no data available

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

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RTECS: NT8050000

Central nervous system depression, prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects.
Kidney - Irregularities - Based on Human Evidence

1-Butanol (71-36-3) [1-5%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 790 mg/kg Remarks: Liver:Fatty liver degeneration. Kidney, Ureter, Bladder:Other changes. Blood:Other changes.

LC50 Inhalation - rat - 4 h - 8000 ppm

LD50 Dermal - rabbit - 3,400 mg/kg

no data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: EO1400000

drying, cracking of the skin, Skin irritation

Liver - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

Toluene (108-88-3) [15-20%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - > 5,580 mg/kg

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m3

LD50 Dermal - rabbit - 12,196 mg/kg

no data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

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Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: XS5250000

Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Stomach - Irregularities - Based on Human Evidence

Methyl isobutyl ketone (108-10-1) [5-10%]

Information on toxicological effects

Acute toxicity:

Oral LD50 Oral - rat - 2,080 mg/kg

Inhalation LC50 Inhalation - rat - 4 h - 8.2 - 16.4 mg/m³

Dermal LD50 Dermal - rabbit - > 16,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Moderate eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: 2B - Group 2B: Possibly carcinogenic to humans (4-Methylpentan-2-one)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

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Teratogenicity: Developmental Toxicity - mouse - Inhalation:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - mouse - Inhalation:

Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System):

no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: Blurred vision, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: SA9275000

Ethyl acetate (141-78-6) [10-15%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 5,620 mg/kg

LC50 Inhalation - mouse - 2 h - 45,000 mg/m³

LD50 Dermal - rabbit - > 18,000 mg/kg

no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

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Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: AH5425000

Central nervous system depression, Drowsiness, narcosis, anemia
Kidney - Irregularities - Based on Human Evidence

Di(2-ethylhexyl) phthalate (117-81-7) [5-10%]

Information on toxicological effects

Acute toxicity:

LD50 Oral - rat - 30,000 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - 25,000 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (bis(2-Ethylhexyl) phthalate)

NTP: Reasonably anticipated to be a human carcinogen (bis(2-Ethylhexyl) phthalate)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: May cause congenital malformation in the fetus. Presumed human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: TI0350000

Lung irritation, Gastrointestinal disturbance
Kidney -

Acetone (67-64-1) [1-5%]

Information on toxicological effects

Acute toxicity:

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LD50 Oral - rat - 5,800 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor.

LC50 Inhalation - rat - 8 h - 50,100 mg/m³

Inhalation: no data available

LD50 Dermal - guinea pig - 7,426 mg/kg

Skin corrosion/irritation: Skin - rabbit Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: AL3150000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

Isopropanol (67-63-0) [10-15%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h.

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h.

EC50 - Algae - > 1,000.00 mg/l - 24 h

Persistence and degradability: no data available

Bioaccumulative potential: no data available

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Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

1-Butanol (71-36-3) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1,840 mg/l - 96 h.

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,983 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: Bioaccumulative potential:

Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 24 h - 921 mg/l

Bioconcentration factor (BCF): 0.38

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Toluene (108-88-3) [15-20%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 7.63 mg/l - 96 h.

NOEC - Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 8.00 mg/l - 24 h.

other aquatic invertebrates

Immobilization EC50 - Daphnia magna (Water flea) - 6 mg/l - 48 h

Toxicity to algae EC50 - Chlorella vulgaris (Fresh water algae) - 245.00 mg/l - 24 h.

EC50 - Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

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Methyl isobutyl ketone (108-10-1) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC0 - *Leuciscus idus melanotus* - 480 mg/l - 48 h.

Toxicity to daphnia EC50 - *Daphnia magna* (Water flea) - 1,550 - 3,623 mg/l - 24 h.
and other aquatic invertebrates

Toxicity to algae EC50 - *Desmodesmus subspicatus* (green algae) - 980 - 2,000 mg/l - 48 h.

Persistence and degradability: Biodegradability Biotic/Aerobic

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Ethyl acetate (141-78-6) [10-15%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 350.00 - 600.00 mg/l - 96 h.

LC50 - *Pimephales promelas* (fathead minnow) - 220.00 - 250.00 mg/l - 96 h

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 2,300.00 - 3,090.00 mg/l - 24 h.
other aquatic invertebrates

LC50 - *Daphnia magna* (Water flea) - 560 mg/l - 48 h

Toxicity to algae EC50 - Algae - 4,300.00 mg/l - 24 h.

EC50 - SELENASTRUM - 1,800.00 - 3,200.00 mg/l - 72 h

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Di(2-ethylhexyl) phthalate (117-81-7) [5-10%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Pimephales promelas* (fathead minnow) - > 0.67 mg/l - 96 h.

LC50 - *Oncorhynchus mykiss* (rainbow trout) - > 0.32 mg/l - 96 h

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LC50 - Cyprinodon variegatus (sheepshead minnow) - > 0.17 mg/l - 96 h
LC50 - Lepomis macrochirus (Bluegill) - > 0.20 mg/l - 96 h
NOEC - other fish - > 0.3 mg/l - 96 h
Toxicity to daphnia and Immobilization EC50 - Daphnia magna (Water flea) - > 0.16 mg/l - 48 h.
other aquatic invertebrates

Persistence and degradability: no data available Biodegradability Result: - Readily biodegradable. (OECD Test Guideline 301)

Bioaccumulative potential: Bioaccumulation Oncorhynchus mykiss (rainbow trout) - 100 d - 0.014 mg/l

Bioconcentration factor (BCF): 113

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

no data available

Acetone (67-64-1) [1-5%]

Information on ecological effects

Toxicity: no data available

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 13,500.00 mg/l - 48 h.
other aquatic invertebrates

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

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DISPOSAL CONSIDERATIONS

Isopropanol (67-63-0) [10-15%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

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Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

1-Butanol (71-36-3) [1-5%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Toluene (108-88-3) [15-20%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Methyl isobutyl ketone (108-10-1) [5-10%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

Ethyl acetate (141-78-6) [10-15%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

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Di(2-ethylhexyl) phthalate (117-81-7) [5-10%]

Waste treatment methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

Acetone (67-64-1) [1-5%]

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

UN1993, Flammable liquids, n.o.s., 3, PGII, (UN1993, Flammable Liquid, N.O.S., 3, II)

Land Transport: USDOT:

Sea Transport: IMDG:

Air Transport: IATA/ICAO:

CHEMTREC (800) 424-9300 CCN-725168

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Isopropanol (67-63-0) [10-15%] MASS, NJHS, NRC, OSHAWAC, PA, SARA313, TSCA, TXAIR

RQ(5000LBS), 1-Butanol (71-36-3) [1-5%] CERCLA, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(1000LBS), Toluene (108-88-3) [15-20%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Naphtha (8030-30-6) [10-15%] MASS, OSHAWAC, PA, TSCA, TXAIR

Methyl isobutyl ketone (108-10-1) [5-10%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

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Ethyl acetate (141-78-6) [10-15%] CERCLA, MASS, OSHAWAC, PA, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(100LBS), Di(2-ethylhexyl) phthalate (117-81-7) [5-10%] CERCLA, EPCRAWPC, HAP, MASS, NJHS, NRC, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(5000LBS), Acetone (67-64-1) [1-5%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

Regulatory CODE Descriptions

RQ = Reportable Quantity
MASS = MA Massachusetts Hazardous Substances List
NJHS = NJ Right-to-Know Hazardous Substances
NRC = Nationally Recognized Carcinogens
OSHA = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
SARA313 = SARA 313 Title III Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level
CERCLA = Superfund clean up substance
TOXICRCRA = RCRA Toxic Hazardous wastes (U-List)
TXHWL = TX Hazardous Waste List
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
HAP = Hazardous Air Pollutants
PRIPOL = Clean Water Act Priority Pollutants
PROP65 = CA Prop 65
TOXICPOL = Clean Water Act Toxic Pollutants

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OTHER INFORMATION

DISCLAIMER:

The user's attention is drawn to the risks brought upon by the misuse of the product. This Safety Data Sheet does not exempt the user from knowing and applying the regulations corresponding to his/her activity. It is his//her own responsibility to take the precautions according to the use of this product.

FOR INDUSTRIAL USE ONLY.

KEEP THIS and all chemicals OUT OF THE REACH OF CHILDREN !

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