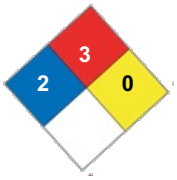
SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

NFPA



HMIS

Health Hazard	2*
Fire Hazard	3
Reactivity	0
Personal Protection	X

* Chronic Health Effects

Product Name:	**SW420058**
Product Code:	3031
SDS Manufacturer Number:	3031FLIQ
Product Description:	Presaturated wipes containing Methyl Propyl Ketone
Manufacturer Name:	Contec, Inc.
Address:	525 Locust Grove Spartanburg, South Carolina 29303 USA
General Phone Number:	1-864-503-8333
Emergency Phone Number:	Chemtrec® US: 1-800-424-9300 International: 1-703-527-3887
Website:	www.contecinc.com
SDS Creation Date:	August 26, 2014
SDS Revision Date:	August 26, 2014

SECTION 2 : HAZARD(S) IDENTIFICATION

GHS Pictograms:

Signal Word: DANGER!

GHS Class:
Flammable Liquid, Category 2..
Eye Irritant, Category 2..
Specific Target Organ Toxicity, Single Exposure, Category 3.
Acute oral and inhalation toxicity, Category 4.

Hazard Statements:
Highly flammable liquid and vapor.
Causes serious eye irritation.
Harmful if swallowed.
Harmful if inhaled.

Precautionary Statements:
Keep away from heat/sparks/open flames/hotsurfaces. — No smoking.
Take precautionary measures against static discharge.
In case of fire: Use dry chemical, carbon dioxide to extinguish small fires. Use water for large fires.
Wear protective gloves, protective clothing, and eye protection.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid breathing vapors.
Store in a well-ventilated place. Keep container tightly closed.
IF IN EYES: Rinse cautiously with water for several minutes.
If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Emergency Overview: WARNING! Flammable. Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

- Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
- Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling.
- Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects.
- Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system. Central nervous system.

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Methyl isobutyl ketone	108-10-1	≤10 by weight	203-550-1
Methyl propyl ketone	107-87-9	≥90 by weight	

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 : FIRE FIGHTING MEASURES

Flammable Properties:	Flammable.
Flash Point:	8°C (46°F)
Flash Point Method:	Tag Closed Cup (T.C.C).
Auto Ignition Temperature:	449°C (840°F) methyl propyl ketone
Lower Flammable/Explosive Limit:	1.56% by volume (methyl propyl ketone)
Upper Flammable/Explosive Limit:	8.7% by volume (methyl propyl ketone)
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO_2) or dry chemical when fighting fires involving this material.
Protective Equipment:	In the event of a fire, wear Self-Contained Breathing Apparatus (SCBA), approved or in accordance to NFPA, NIOSH, and/or European Standard EN 137 guidelines or equivalent and full protective gear.

NFPA Ratings:

NFPA Health:	2
NFPA Flammability:	3
NFPA Reactivity:	0

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
Special Handling Procedures:	Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149 Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.
PPE Pictograms:	

EXPOSURE GUIDELINES

Methyl isobutyl ketone :

Guideline ACGIH:	TLV-TWA: 50 ppm TLV-STEL: 75 ppm
Guideline OSHA:	PEL-TWA: 100 ppm
GERMAN MAK:	MAK-TWA: 20 ppm MAK-STEL: 40 ppm Skin: Yes.

Methyl propyl ketone :

Guideline ACGIH:	TLV-STEL: 150 ppm
Guideline OSHA:	PEL-TWA: 200 ppm

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid soaked wipe.
Color:	colourless.
Odor:	ketones
Boiling Point:	214°F (101°C)
Melting Point:	-108°F (-78°C)
Specific Gravity:	0.81 @20°C
Solubility:	moderately soluble.
Vapor Density:	2.9 (air = 1)
Vapor Pressure:	37 mbar @68°F
Percent Volatile:	100
Evaporation Rate:	2.3 (butyl acetate = 1)
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	8°C (46°F)
Flash Point Method:	Tag Closed Cup (T.C.C).
Auto Ignition Temperature:	449°C (840°F) methyl propyl ketone
VOC Content:	810 g/L
Percent Solids by Weight	0

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 : TOXICOLOGICAL INFORMATION

Methyl isobutyl ketone :

Eye:	Administration into the eye - Rabbit Standard Draize test : 40 mg [Severe] Administration into the eye - Rabbit Standard Draize test : 100 uL/24H [Moderate] (RTECS)
Skin:	Administration onto the skin - Rabbit LD - Lethal dose : >3 gm/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit Standard Draize test : 500 mg/24H [Mild] (RTECS)
Inhalation:	Inhalation - Rat LC50 - Lethal concentration, 50 percent kill : 100 gm/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 23300 mg/m3 [Details of toxic effects not reported other than lethal dose value] Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 23300 mg/m3 [Brain and Coverings - Increased intracranial pressure Lungs, Thorax, or Respiration - Other changes Liver - Fatty liver degeneration] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill : 2080 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 1900 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 2850 mg/kg [Brain and Coverings - Increased intracranial pressure Liver - Fatty liver degeneration Blood - Changes in spleen] Oral - Rat LD50 - Lethal dose, 50 percent kill : 4600 mg/kg [Brain and Coverings - Increased intracranial pressure Liver - Fatty liver degeneration Blood - Changes in spleen] (RTECS)

Methyl propyl ketone :

Skin:	Administration onto the skin - Rabbit LD50 - Lethal dose, 50 percent kill : 6500 mg/kg [Details of toxic effects not reported other than lethal dose value] Administration onto the skin - Rabbit Open irritation test : 405 mg [Mild] (RTECS)
Inhalation:	Inhalation - Mouse LC50 - Lethal concentration, 50 percent kill : 22000 mg/m3/2H [Details of toxic effects not reported other than lethal dose value] (RTECS)
Ingestion:	Oral - Rat LD50 - Lethal dose, 50 percent kill : 1600 mg/kg [Details of toxic effects not reported other than lethal dose value] Oral - Mouse LD50 - Lethal dose, 50 percent kill : 1600 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 or the EU Directive 2008/98/EC on waste for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state, local, or provincial waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Flammable liquid, n.o.s. (Methyl propyl ketone, Methyl Isobutyl Ketone)
DOT Hazard Class:	3
DOT Packing Group:	II
IATA Shipping Name:	Flammable liquid, n.o.s. (Methyl propyl ketone, Methyl Isobutyl Ketone)
IATA Hazard Class:	3
IATA Packing Group:	II
IMDG UN NUmber :	UN1993
IMDG Shipping Name :	Flammable liquid, n.o.s. (Methyl propyl ketone, Methyl Isobutyl Ketone)
IMDG Hazard Class :	3
IMDG Packing Group :	II
Marine Pollutant:	No.

SECTION 15 : REGULATORY INFORMATION

Methyl isobutyl ketone :

TSCA Inventory Status:	Listed
Canada DSL:	Listed
EC Number:	203-550-1

Methyl propyl ketone :

TSCA Inventory Status:	Listed
Canada DSL:	Listed
Canadian Regulations.	WHMIS Hazard Class(es): B2 All components of this product are on the Canadian Domestic Substances List.
WHMIS Pictograms:	

SECTION 16 : ADDITIONAL INFORMATION

HMIS Health Hazard:	2*
HMIS Fire Hazard:	3
HMIS Reactivity:	0
HMIS Personal Protection:	X
SDS Creation Date:	August 26, 2014
SDS Revision Date:	August 26, 2014
MSDS Author:	Actio Corporation