Material Safety Data Sheet



KONFORM® AR (Liquid)

1. Product and company identification

Product name	: KONFORM® AR (Liquid)
Supplier	: Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152
	Tel. 770-424-4888 or toll free 800-645-5244
Synonym	: Konform® AR (Liquid) (formerly Konform® AR 2000)
Trade name	: KONFORM® AR
Material uses	: Coating Solution
Manufacturer	: Chemtronics 8125 Cobb Center Drive Kennesaw, GA 30152
	Tel. 770-424-4888 or toll free 800-645-5244
Code	: CTAR1, CTAR5, CTAR55, CTAR8L, CTAR1C, CTAR5C, CTAR55C
MSDS #	: 0708L
Validation date	: 2/6/2014.
Print date	: 2/6/2014.
In case of emergency	: Chemtrec - 1-800-424-9300 or collect 703-527-3887 24/7
Product type	: Liquid.

2. Hazards identification

Emergency overview			
Physical state	:	Liquid.	
Color	:	Colorless.	
Odor	:	Fruity. Ethereal. [Strong]	
Signal word	:	WARNING!	
Hazard statements	:	FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY CAUSE EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.	
Precautionary measures	:	Do not breathe vapor or mist. Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Wash thoroughly after handling.	
OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Routes of entry	:	Inhalation	
Potential acute health effects			
Inhalation	:	Harmful if inhaled. At high concentrations, Vapor reduces oxygen available for breathing. Vapors may cause drowsiness and dizziness.	
Ingestion	:	Harmful if swallowed. Irritating to mouth, throat and stomach. May cause vomiting.	
Skin	:	Moderately irritating to the skin.	
Eyes	1	Moderately irritating to eyes.	
Potential chronic health effects			
Chronic effects	:	Contains material that may cause target organ damage, based on animal data.	

2/6/2014.

2. Hazards identification		
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	
Target organs	: Contains material which may cause damage to the following organs: kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.	
Over-exposure signs/symp	<u>otoms</u>	
Inhalation	: Adverse symptoms may include the following: dizziness/vertigo drowsiness/fatigue unconsciousness	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting	
Skin	: Adverse symptoms may include the following: irritation redness	
Eyes	: Adverse symptoms may include the following: irritation watering redness	
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.	

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
n-butyl acetate	123-86-4	30 - 50
propyl acetate	109-60-4	20 - 25
2-methoxy-1-methylethyl acetate	108-65-6	20 - 25
butanone	78-93-3	5 - 10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	 Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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4. First aid measures		
: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.		
 No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 		
asures		
: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.		
: Use dry chemical, CO ₂ , water spray (fog) or foam.		
: Do not use water jet.		

Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective
equipment for fire-fighters:Fire-fighters should wear appropriate protective equipment and self-contained breathing
apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	: Do not store below the following temperature: 48.889°C (120°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits	
n-butyl acetate	ACGIH TLV (United States, 6/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. NIOSH REL (United States, 4/2013). STEL: 950 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m ³ 10 hours. TWA: 150 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 710 mg/m ³ 8 hours. TWA: 150 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 950 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m ³ 8 hours. TWA: 710 mg/m ³ 8 hours. TWA: 710 mg/m ³ 8 hours. TWA: 150 ppm 15 minutes. TWA: 710 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.	
propyl acetate	ACGIH TLV (United States, 6/2013). STEL: 1040 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 835 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. NIOSH REL (United States, 4/2013). STEL: 1050 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 840 mg/m ³ 10 hours. TWA: 200 ppm 10 hours. TWA: 200 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 840 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours.	
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8. Exposure controls/personal protection

•		• •
		STEL: 1050 mg/m ³ 15 minutes.
		STEL: 250 ppm 15 minutes. TWA: 840 mg/m³ 8 hours.
		TWA: 200 ppm 8 hours.
2-methoxy-1-methylethyl ace	tate	AIHA WEEL (United States, 10/2011).
		TWA: 50 ppm 8 hours.
butanone		ACGIH TLV (United States, 6/2013).
		STEL: 885 mg/m ³ 15 minutes.
		STEL: 300 ppm 15 minutes.
		TWA: 590 mg/m ³ 8 hours.
		TWA: 200 ppm 8 hours.
		NIOSH REL (United States, 4/2013).
		STEL: 885 mg/m ³ 15 minutes.
		STEL: 300 ppm 15 minutes.
		TWA: 590 mg/m ³ 10 hours.
		TWA: 200 ppm 10 hours.
		OSHA PEL (United States, 2/2013).
		TWA: 590 mg/m ³ 8 hours.
		TWA: 200 ppm 8 hours.
		OSHA PEL 1989 (United States, 3/1989).
		STEL: 885 mg/m ³ 15 minutes.
		STEL: 300 ppm 15 minutes.
		TWA: 590 mg/m ³ 8 hours.
		TWA: 200 ppm 8 hours.
Recommended monitoring	1	If this product contains ingredients with exposure limits, personal, workplace
procedures		atmosphere or biological monitoring may be required to determine the effectiveness of
		the ventilation or other control measures and/or the necessity to use respiratory
		protective equipment. Reference should be made to appropriate monitoring standards.
		Reference to national guidance documents for methods for the determination of
		hazardous substances will also be required.
Engineering measures	1	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or
		other engineering controls to keep worker exposure to airborne contaminants below any
		recommended or statutory limits. The engineering controls also need to keep gas,
		vapor or dust concentrations below any lower explosive limits. Use explosion-proof
		ventilation equipment.
Hygiene measures	1	Wash hands, forearms and face thoroughly after handling chemical products, before
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		eating, smoking and using the lavatory and at the end of the working period.
		Appropriate techniques should be used to remove potentially contaminated clothing.
		Wash contaminated clothing before reusing. Ensure that evewash stations and safety
		showers are close to the workstation location.
Personal protection		
Respiratory	÷.,	Use a properly fitted, air-purifying or air-fed respirator complying with an approved
Respiratory	1	standard if a risk assessment indicates this is necessary. Respirator selection must be
		based on known or anticipated exposure levels, the hazards of the product and the safe
		working limits of the selected respirator.
1 I such		
Hands		Chemical-resistant, impervious gloves complying with an approved standard should be
		worn at all times when handling chemical products if a risk assessment indicates this is
		necessary. Considering the parameters specified by the glove manufacturer, check
		during use that the gloves are still retaining their protective properties. It should be
		noted that the time to breakthrough for any glove material may be different for different
		glove manufacturers. In the case of mixtures, consisting of several substances, the
		protection time of the gloves cannot be accurately estimated.
Eyes	:	Safety eyewear complying with an approved standard should be used when a risk
		assessment indicates this is necessary to avoid exposure to liquid splashes, mists or
		dusts. If contact is possible, the following protection should be worn, unless the
		assessment indicates a higher degree of protection: chemical splash goggles.
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8. Exposure controls/personal protection

Skin	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: -1.1111°C (30°F) [Tagliabue.]
Color	: Colorless.
Odor	: Fruity. Ethereal. [Strong]
Boiling/condensation point	: >210°C (>410°F)
Vapor pressure	: 1.6 kPa (12 mm Hg) [room temperature]
Vapor density	: <1 [Air = 1]
Evaporation rate	: >1 (butyl acetate = 1)

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	 Reactive or incompatible with the following materials: oxidizing materials strong alkalis
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
propyl acetate	LD50 Oral	Rat	9370 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Conclusion/Summary	: Not available.			
Chronic toxicity				
Conclusion/Summary	: Not available.			
rritation/Corrosion				

11. Toxicological information

Product/ingredient name	Result			Species	Score	Exposure	Obser	vation
n-butyl acetate	Eyes - N	loderate	irritant	Rabbit	-	100	-	
	Skin - M	oderate	irritant	Rabbit	_	milligrams 24 hours 500	_	
		ouerate	innani	Rabbit		milligrams		
propyl acetate	Eyes - N	1ild irritai	nt	Rabbit	-	24 hours 500	-	
	Skin - M	ild irritar	nt	Rabbit	_	milligrams 500	_	
				Rabbit		milligrams		
butanone	Skin - M	ild irritar	nt	Rabbit	-	24 hours 14	-	
	Skin - M	oderate	irritant	Rabbit		milligrams 24 hours 500	_	
		ouerate	man	Rabbit	-	milligrams	-	
Conclusion/Summary	: Not ava	ailable.				_		
Sensitizer								
Conclusion/Summary	: Not ava	ailable.						
Carcinogenicity								
Conclusion/Summary	: Not ava	ailable.						
	: Not ava	ailable.						
Conclusion/Summary	: Not ava	ailable.	NTP			ACGIH	EPA	NIOSH
Conclusion/Summary Classification Product/ingredient name n-butyl acetate		T	NTP -			ACGIH A4	EPA -	None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate		T	NTP - -				EPA - -	None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl		T	NTP - - -				EPA - - -	None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate		T	NTP - - - -				EPA	None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl acetate butanone		T	NTP - - - -				EPA - - - -	None. None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl acetate butanone		IARC - - -	NTP - - -				EPA - - -	None. None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl acetate butanone Mutagenicity Conclusion/Summary	OSHA - - - -	IARC - - -	NTP - - -				EPA - - -	None. None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl acetate butanone Mutagenicity Conclusion/Summary	OSHA - - - -	IARC - - - ailable.	NTP - - -				EPA - - -	None. None. None.
Conclusion/Summary Classification Product/ingredient name n-butyl acetate propyl acetate 2-methoxy-1-methylethyl acetate butanone Mutagenicity Conclusion/Summary Teratogenicity	OSHA - - - - : Not ava	IARC - - - ailable.	NTP - - -				EPA - - -	None. None. None.

12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 62000 µg/l	Fish - Danio rerio	96 hours
propyl acetate	Acute LC50 60000 to 64000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
butanone	Acute EC50 >500000 μg/l Marine water Acute LC50 520000 μg/l Fresh water Acute LC50 400 ppm Marine water	Algae - Skeletonema costatum Daphnia - Daphnia magna Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 96 hours

Conclusion/Summary Persistence/degradability

Other adverse effects

: Not available.

Conclusion/Summary : Not available.

: No known significant effects or critical hazards.

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13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #		Reference number
Methyl ethyl ketone (MEK) (I,T); 2-Butanone (I,T)	78-93-3	Listed	U159

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1139	Coating Solution (n- butyl acetate, propyl acetate)	3	II	AMMAN LIGHT	Reportable quantity 12500 lbs / 5675 kg [1647.4 gal / 6236.3 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	UN1139	Coating Solution (n- butyl acetate, propyl acetate)	3	II		-
Mexico Classification	UN1139	Coating Solution (n- butyl acetate, propyl acetate)	3	II		-
ADR/RID Class	UN1139	Coating Solution	3	II		Special provisions 640 (C)
IMDG Class	1139	Coating Solution (n- butyl acetate, propyl acetate)	3			-

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14. Transpo	rt inforn	nation		
IATA-DGR Class	1139	Coating Solution	3	Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 307 Limited Quantities - Passenger Aircraft Quantity limitation: 5 L Packaging instructions: 305

PG* : Packing group

15. Regulatory info	or	mation
HCS Classification	:	Flammable liquid Toxic material Irritating material Target organ effects
U.S. Federal regulations	1	TSCA 8(a) PAIR: 2-methoxy-1-methylethyl acetate
		TSCA 8(a) CDR Exempt/Partial exemption: Not determined
		United States inventory (TSCA 8b): Not determined.
		Clean Water Act (CWA) 311: n-butyl acetate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	-	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Listed
<u>SARA 302/304</u>		
Composition/information of	on	ingredients
No products were found.		
SARA 304 RQ	:	Not applicable.
<u>SARA 311/312</u>		
Classification	:	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
n-butyl acetate	30 - 50	Yes.	No.	No.	Yes.	Yes.
propyl acetate	20 - 25	Yes.	No.	No.	No.	Yes.
2-methoxy-1-methylethyl acetate	20 - 25	Yes.	No.	No.	No.	Yes.
butanone	5 - 10	Yes.	No.	No.	Yes.	Yes.

15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	butanone	78-93-3	5 - 10
Supplier notification	butanone	78-93-3	5 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

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State regulations		
Massachusetts	:	The following components are listed: BUTYL ACETATE; N-PROPYL ACETATE; METHYL ETHYL KETONE (MEK)
New York	1	The following components are listed: Butyl acetate; Methyl ethyl ketone; 2-Butanone
New Jersey	:	The following components are listed: n-BUTYL ACETATE; ACETIC ACID, BUTYL ESTER; n-PROPYL ACETATE; ACETIC ACID, PROPYL ESTER; METHYL ETHYL KETONE; 2-BUTANONE
Pennsylvania	:	The following components are listed: ACETIC ACID, BUTYL ESTER; ACETIC ACID, PROPYL ESTER; 2-BUTANONE
Canada inventory	1	Not determined.
International regulations		
International lists	:	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

16. Other information

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Label requirements	: FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. MAY CAUSE EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.	
Hazardous Material		
	•	
Information System (U.S.A.)		
	Health	1
	Flammability	3
	Physical hazards	1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

16. Other information

The customer is responsible for determining the PPE code for this material.

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National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing	: 2/6/2014.
Date of issue	: 2/6/2014.
Date of previous issue	: 2/6/2014.
Version	: 1.03
Prepared by	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.