MARKING & CODING

SAFETY DATA SHEET

1. Identification

Product identifier Other means of identification	5780-260, 5780-260FX, 5780261, 5780-261FX None.	
Recommended use	Printing ink.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Manufacturer/Importer/Supplier/Distributor information	
Supplier		
Company name	ITW Marking & Coding	
Address	1 Research Park Drive	
	St. Charles, MO 63304-5685 USA	
Telephone	800-526-2531 / 636-300-2000	
Contact person	Customer Service	
Emergency phone number	Infotrac 800-535-5053 (US only) +1-352-323-3500 International	

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Serious eye damage/eye irritation Specific target organ toxicity, single exposure	Category 1 Category 3 narcotic effects
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

Label elements



Signal word	Danger	
Hazard statement	Highly flammable liquid and vapor. Causes serious eye damage. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection.	
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: Use appropriate media to extinguish.	
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Ethanol		64-17-5	< 65
1-Propanol		71-23-8	< 20
Dyestuff		N/A	< 10
Acetone		67-64-1	< 3
1-Butanol		71-36-3	< 2
Composition comments	All concentrations are in percent by weight u percent by volume.	unless ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest CENTER or doctor/physician if you feel unw	in a position comfortable for br ell.	eathing. Call a POISON
Skin contact	Take off immediately all contaminated clothi attention if irritation develops and persists.	ng. Rinse skin with water/show	ver. Get medical
Eye contact	Immediately flush eyes with plenty of water present and easy to do. Continue rinsing. G		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.		
General information	Take off all contaminated clothing immediate material(s) involved, and take precautions to before reuse.	ely. Ensure that medical perso protect themselves. Wash co	nnel are aware of the ntaminated clothing
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chem	nical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as t	his will spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air of ignition and flash back. During fire, gases		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full	protective clothing must be wo	rn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breatl so without risk.	he fumes. Move containers fro	m fire area if you can do
Specific methods	Use standard firefighting procedures and co	nsider the hazards of other inv	olved materials.
General fire hazards	Highly flammable liquid and vapor.		

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
1-Butanol (CAS 71-36-3)	PEL	300 mg/m3
		100 ppm
1-Propanol (CAS 71-23-8)	PEL	500 mg/m3
		200 ppm
Acetone (CAS 67-64-1)	PEL	2400 mg/m3
		1000 ppm
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm
US. ACGIH Threshold Limit Value	S	
Components	Туре	Value
1-Butanol (CAS 71-36-3)	TWA	20 ppm
1-Propanol (CAS 71-23-8)	TWA	100 ppm
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide to Cher	nical Hazards	
Components	Туре	Value
1-Butanol (CAS 71-36-3)	Ceiling	150 mg/m3
		50 ppm
1-Propanol (CAS 71-23-8)	STEL	625 mg/m3
		250 ppm
	TWA	500 mg/m3

US. NIOSH: Pocket Guide to Components	Chemical Hazards Type		Va	lue
	.,,,,			0 ppm
Acotono $(CAS 67 64 1)$	TWA			
Acetone (CAS 67-64-1)	IVVA			0 mg/m3
	T)A/A			0 ppm
Ethanol (CAS 64-17-5)	TWA			00 mg/m3
			10	00 ppm
ological limit values				
ACGIH Biological Exposure Components V	Indices alue	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1) 2	5 mg/l	Acetone	Urine	*
* - For sampling details, pleas	e see the source docu	iment.		
cposure guidelines				
US - California OELs: Skin o	lesignation			
1-Butanol (CAS 71-36-3)			absorbed throu	
1-Propanol (CAS 71-23-8 US - Minnesota Haz Subs: S			absorbed throu	gh the skin.
1-Butanol (CAS 71-36-3)			signation applie	
1-Propanol (CAS 71-23-8	,	Skin de	esignation applie	S.
US - Tennessee OELs: Skin 1-Butanol (CAS 71-36-3)	designation	Can bo	absorbed throu	ah tha skin
US. NIOSH: Pocket Guide to	Chemical Hazards	Call be		
1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8			absorbed throu absorbed throu	
opropriate engineering	Explosion-proof gen Ventilation rates sho exhaust ventilation, exposure limits. If ex-	eral and local exha ould be matched to or other engineerin oposure limits have	ust ventilation. (conditions. If ap g controls to ma not been establ	Good general ventilation should be used. plicable, use process enclosures, local intain airborne levels below recommended ished, maintain airborne levels to an nower must be available when handling this
dividual protection measures,	such as personal pre	otective equipme	nt	
Eye/face protection	Wear approved safe	ty goggles. Wear f	ace shield if ther	e is risk of splashes.
Skin protection				
Hand protection	Wear appropriate ch recommended.	nemical resistant gl	oves. Nitrile, but	yl rubber or neoprene gloves are
Skin protection				
Other	Wear suitable protect	ctive clothing.		
Respiratory protection	Chemical respirator	with organic vapor	cartridge and fu	Il facepiece.
Thermal hazards	Wear appropriate th	ermal protective cl	othing, when neo	cessary.
			0.	-

General hygiene
considerationsWhen using do not smoke. Always observe good personal hygiene measures, such as washing
after handling the material and before eating, drinking, and/or smoking. Routinely wash work
clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Alcoholic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	Not available.
range	

Flash point	53.6 °F (12.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2.4 mPa·s (25°C)
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated contact may dry skin and cause irritation.
Eye contact	Causes serious eye damage.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
The second s	

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.	
Components	Species Test Results	
1-Butanol (CAS 71-36-3)		
Acute		
Dermal		
LD50	Rabbit	3400 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Rat	8000 ppm, 4 Hours
Oral	_	
LD50	Rat	790 mg/kg
Acetone (CAS 67-64-1)		
<u>Acute</u> Dermal		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Rat	5800 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u> Inhalation		
Vapor		
LC50	Mouse	39 g/m3, 4 Hours
Oral		
LD50	Rat	7000 - 11000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritat	ion.
erious eye damage/eye rritation	Causes serious eye damage.	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Not listed. NTP Report on Carcinogens Not listed.	Evaluation of Carcinogenicity s ed Substances (29 CFR 1910.1001-1053)	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
Further information	No other specific acute or chronic health impact no	ted.
12. Ecological informatior		
Ecotoxicity	Harmful to aquatic life with long lasting effects.	
Components	Species	Test Results
Acetone (CAS 67-64-1)	-	
Aquatic		
Aquatic Acute		

Components		Species	Test Results
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
Ethanol (CAS 64-17-5)			
Aquatic			
Acute			
Crustacea	LC50	Ceriodaphnia dubia	5012 mg/l, 48 hours
		Daphnia magna	454 mg/l, 11 days
Fish	LC50	Pimephales promelas	13480 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	9.6 mg/l, 10 days
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential			
Partition coefficient n-octa 1-Butanol (CAS 71-36-3) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)	nol / water (le	og Kow) 0.88 -0.24 -0.31	
Mobility in soil	The product is insoluble in water.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal consideration	ons		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in accordance with all applicable regulations.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		

14. Transport information

DOT	
UN number	UN1210
UN proper shipping name	Printing ink
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	Ш
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	149, IB2, T4, TP1, TP8
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1210
UN proper shipping name	Printing ink
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	Ш
Environmental hazards	No.

3L

ERG Code

Special precautions for use	r Read safety instructions, SDS and emerge	ncy procedures before handling.
UN number	UN1210	
UN proper shipping name	PRINTING INK	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards		
Marine pollutant	No.	
EmS	F-E, S-D	
	r Read safety instructions, SDS and emerge	ncy procedures before handling.
Transport in bulk according to	Not established.	
Annex II of MARPOL 73/78 and the IBC Code		
	_	
15. Regulatory information		
US federal regulations	This product is a "Hazardous Chemical" as Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA	defined by the OSHA Hazard Communication
TSCA Section 12(b) Exp	port Notification (40 CFR 707, Subpt. D)	
Not regulated.		
	bstance List (40 CFR 302.4)	
1-Butanol (CAS 71-3		
Acetone (CAS 67-64		
SARA 304 Emergency r		
Not regulated. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1053	3)
Not regulated.		,
C C	authorization Act of 1986 (SARA)	
euperiana / anonaniente ana rie		
SARA 302 Extremely hazard		
SARA 302 Extremely hazard Not listed.	lous substance	
SARA 302 Extremely hazard		
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous	lous substance	ids)
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical	lous substance Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation	
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories	lous substance Yes Flammable (gases, aerosols, liquids, or sol	
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting)	lous substance Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe	eated exposure)
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name	lous substance Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe CAS number	wated exposure) % by wt.
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol	lous substance Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe	eated exposure)
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe <u>CAS number</u> 71-36-3	eated exposure) % by wt. < 2
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section	lous substance Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe CAS number	eated exposure) % by wt. < 2
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated.	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe <u>CAS number</u> 71-36-3	eated exposure) % by wt. < 2
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated.	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe <u>CAS number</u> 71-36-3 112 Hazardous Air Pollutants (HAPs) List	eated exposure) % by wt. < 2
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe <u>CAS number</u> 71-36-3 112 Hazardous Air Pollutants (HAPs) List	cFR 68.130)
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or repe CAS number 71-36-3 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 Contains component(s) regulated under the inistration (DEA). List 2, Essential Chemic	cFR 68.130)
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or reper CAS number 71-36-3 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 Contains component(s) regulated under the inistration (DEA). List 2, Essential Chemic	eated exposure) % by wt. < 2 CFR 68.130) e Safe Drinking Water Act.
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number Acetone (CAS 67-64	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or reper CAS number 71-36-3 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 Contains component(s) regulated under the inistration (DEA). List 2, Essential Chemic	wated exposure) % by wt. < 2 CFR 68.130) e Safe Drinking Water Act. sals (21 CFR 1310.02(b) and 1310.04(f)(2) and
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number Acetone (CAS 67-64 Drug Enforcement Adm Acetone (CAS 67-64	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or reper- CAS number 71-36-3 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 Contains component(s) regulated under the inistration (DEA). List 2, Essential Chemica -1) 6532 inistration (DEA). List 1 & 2 Exempt Chem -1) 35 %WV	wated exposure) % by wt. < 2 CFR 68.130) e Safe Drinking Water Act. sals (21 CFR 1310.02(b) and 1310.04(f)(2) and
SARA 302 Extremely hazard Not listed. SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting) Chemical name 1-Butanol Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number Acetone (CAS 67-64 Drug Enforcement Adm	Yes Flammable (gases, aerosols, liquids, or sol Serious eye damage or eye irritation Specific target organ toxicity (single or reper- CAS number 71-36-3 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 Contains component(s) regulated under the inistration (DEA). List 2, Essential Chemic -1) 6532 inistration (DEA). List 1 & 2 Exempt Chem -1) 35 %WV Wixtures Code Number	wated exposure) % by wt. < 2 CFR 68.130) e Safe Drinking Water Act. sals (21 CFR 1310.02(b) and 1310.04(f)(2) and

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)

Low priority Low priority Low priority Low priority

US state regulations

US. Massachusetts RTK - Substance List

1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)

US. Pennsylvania Worker and Community Right-to-Know Law

1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)

US. Rhode Island RTK

1-Butanol (CAS 71-36-3) 1-Propanol (CAS 71-23-8) Acetone (CAS 67-64-1) Ethanol (CAS 64-17-5)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Acetone (CAS 67-64-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

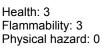
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-October-2016
Revision date	26-March-2019
Version #	03

HMIS® ratings

NFPA ratings





Disclaimer

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