

Hazard pictograms

Signal word

: Danger

Hazard statements : H226 Flammable liquid and vapour. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

### BYK-ES 80

Version 9	Revision Date 07/17/2020	Print Date 09/29/2022
Precautionary statements :	<ul> <li>Prevention:</li> <li>P210 Keep away from heat/ sparks/ No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and refered from the explosion-proof electrical/ equipment.</li> <li>P242 Use only non-sparking tools.</li> <li>P243 Take precautionary measures</li> <li>P261 Avoid breathing dust/ fume/gate part of the precediment of the part of the precediment of the part of the precediment of the precediment of the precediment of the part of the precediment of the precediment of the precediment of the part of the precediment of the prec</li></ul>	ceiving equipment. 'ventilating/ lighting against static discharge. as/ mist/ vapours/ spray. ndling. en using this product. -ventilated area. hould not be allowed out of rotection/ face protection. ED: Call a POISON Rinse mouth. or hair): Take off immediately with water/ shower. Remove person to fresh air Call a POISON CENTER/ EYES: Rinse cautiously with contact lenses, if present mediately call a POISON occurs: Get medical advice/ efore reuse. v sand, dry chemical or ed place. Keep container ed place. Keep cool.
Other hazards None known.		
SECTION 3. COMPOSITION/INFORI	MATION ON INGREDIENTS	
Substance / Mixture :	Mixture	
Chemical nature :	Solution of an alkylolammonium salt	of an unsaturated acidic



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carboxylic acid ester

#### Hazardous components

HMIRA# 6721 Exemption Granted 31.08.2009

Component	CAS-No.	Concentration (%)
Dicarboxylic acid ester with amine	-	>= 80 - < 81
Isobutanol	78-83-1	>= 20 - < 21

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

#### SECTION 4. FIRST AID MEASURES

General advice	<ul> <li>Move out of dangerous area.</li> <li>Consult a physician.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
If inhaled	: Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	: If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	<ul> <li>Small amounts splashed into eyes can cause irreversible tissue damage and blindness.</li> <li>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</li> <li>Continue rinsing eyes during transport to hospital.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>
If swallowed	<ul> <li>Keep respiratory tract clear.</li> <li>Do NOT induce vomiting.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> <li>Take victim immediately to hospital.</li> </ul>
Most important symptoms and effects, both acute and delayed	: No information available.



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CTION 5. FIREFIGHTING MEAS	SUF	RES	
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical	
Unsuitable extinguishing media	:	High volume water jet	
Specific hazards during firefighting	:	Cool closed containers exposed to fire Will not explode on mechanical impac	
		Do not allow run-off from fire fighting to courses.	to enter drains or water
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)	
Further information	:	Collect contaminated fire extinguishin must not be discharged into drains. Fire residues and contaminated fire e be disposed of in accordance with loc For safety reasons in case of fire, can separately in closed containments. Use a water spray to cool fully closed	extinguishing water must cal regulations. Ins should be stored
Special protective equipment for firefighters	:	Wear self-contained breathing apparancessary.	atus for firefighting if
CTION 6. ACCIDENTAL RELEA	SE	MEASURES	
Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to for concentrations. Vapours can accumu	•
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if s If the product contaminates rivers and respective authorities.	safe to do so.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with absorbent material, (e.g. sand, earth, vermiculite) and place in container for local / national regulations (see section	diatomaceous earth, r disposal according to

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Advice on safe handling	<ul> <li>Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special ins Avoid contact with skin and eyes. For personal protection see section Smoking, eating and drinking shou application area. Take precautionary measures aga Provide sufficient air exchange and Open drum carefully as content ma To avoid spills during handling kee Dispose of rinse water in accordan regulations. Persons susceptible to skin sensiti allergies, chronic or recurrent resp be employed in any process in whi used.</li> </ul>	n 8. Id be prohibited in the inst static discharges. d/or exhaust in work rooms. ay be under pressure. ep bottle on a metal tray. ince with local and national sation problems or asthma, iratory disease should not
Conditions for safe storage	<ul> <li>No smoking. Keep container tightly closed in a c place.</li> <li>Containers which are opened mus kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>Electrical installations / working ma the technological safety standards.</li> </ul>	t be carefully resealed and aterials must comply with
Materials to avoid	: Keep away from oxidizing agents.	

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Isobutanol	78-83-1	TWA	50 ppm	ACGIH
Isobutanol		TWA	100 ppm 300 mg/m3	OSHA Z-1
Hazardous components with	nout workplace co	ntrol parameters	• •	
Engineering measures	: Use with lo	cal exhaust ventil	ation.	
Personal protective equip	ment			
Respiratory protection	are below t	he PEL/TLV wear	strates vapor/mist a properly fitted ro ask during exposu	espirator
In the case of vapour formation use a respirator with an				
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	approved filter.			
Hand protection Material	: Nitrile rubber			
Remarks		The suitability for a specific workplace should be discussed with the producers of the protective gloves.		
Eye protection	: Safety Glasses Goggles Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective s problems.	suit for abnormal processing		
Skin and body protection	: Choose body protection accordin concentration of the dangerous s Impervious clothing Choose body protection accordin concentration of the dangerous s	ubstance at the work place.		
Hygiene measures	: Clean long legged, long sleeved Handle in accordance with good practice. When using do not eat or drink.			
	When using do not smoke. Wash hands before breaks and a	at the end of workday.		
CTION 9. PHYSICAL AND CHE	Wash hands before breaks and a	at the end of workday.		
CTION 9. PHYSICAL AND CHE Appearance	Wash hands before breaks and a	at the end of workday.		
	Wash hands before breaks and a	at the end of workday.		
Appearance	Wash hands before breaks and a MICAL PROPERTIES	at the end of workday.		
Appearance Colour	Wash hands before breaks and a MICAL PROPERTIES : liquid : light yellow	at the end of workday.		
Appearance Colour Odour	Wash hands before breaks and a <b>MICAL PROPERTIES</b> : liquid : light yellow : not significant			
Appearance Colour Odour Odour Threshold	Wash hands before breaks and a <b>MICAL PROPERTIES</b> : liquid : light yellow : not significant : No data available : 7, Concentration: 1 % (68 °F (20)			
Appearance Colour Odour Odour Threshold pH	Wash hands before breaks and a <b>MICAL PROPERTIES</b> : liquid : light yellow : not significant : No data available : 7, Concentration: 1 % (68 °F (20 value indicator : < 32 °F (< 0 °C)			
Appearance Colour Odour Odour Threshold pH Melting point/freezing point	Wash hands before breaks and a <b>MICAL PROPERTIES</b> : liquid : light yellow : not significant : No data available : 7, Concentration: 1 % (68 °F (20 value indicator : < 32 °F (< 0 °C) Method: derived : 222.80 °F (106.00 °C)			

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	Method: derived	
Flash point	: 104.00 °F (40.00 °C) Method: 48 (Abel-Pensky)	
Upper explosion limit	: 10.70 %(V)	
Lower explosion limit	: 1.50 %(V)	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Relative vapour density	: No data available	
Relative Density/Specific Gravity	: No data available	
Density	: 1.0100 g/cm3 (68.00 °F (20.00 °C Method: 4 (20°C oscillating U-tub	
Bulk density	: Not applicable	
Solubility(ies) Water solubility	: immiscible	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Ignition temperature	: > 392 °F (> 200 °C) Method: DIN 51794	
Thermal decomposition	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Surface tension	: No data available	
CTION 10. STABILITY AND RE	ΔΟΤΙVΙΤΥ	
Reactivity	: No decomposition if stored and a	upplied as directed.

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Chemical stability	: No decomposition if stored and a	applied as directed.	
Possibility of hazardous reactions	: No decomposition if stored and a	No decomposition if stored and applied as directed.	
	Vapours may form explosive mix	cture with air.	
Conditions to avoid	: Heat, flames and sparks.		
Incompatible materials	: Strong oxidizing agents		
Hazardous decomposition products	: None expected		

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route Skin contact Skin Absorption Inhalation Eyes Ingestion	es of exposure
Acute toxicity	
Product:	
Acute oral toxicity	: Acute toxicity estimate : 595.24 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components: - Dicarboxylic acid ester w Acute oral toxicity	<ul> <li>tith amine:</li> <li>LD50 Oral (Rat, female): &gt; 300 - &lt; 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes</li> </ul>
78-83-1 Isobutanol: Acute oral toxicity	: LD50 (Rat): 2,500 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 8000 ppm Exposure time: 4 h
Acute dermal toxicity	: LD50 (Rabbit): 2,460 mg/kg
Skin corrosion/irritation	
<u>Product:</u> Species: Rabbit	
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Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes Remarks: active ingredient

Remarks: Extremely corrosive and destructive to tissue.

#### **Components:**

#### - Dicarboxylic acid ester with amine: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation GLP: yes

#### 78-83-1 Isobutanol:

Species: Rabbit Result: Moderate skin irritation

#### Serious eye damage/eye irritation

#### Product:

Species: Rabbit Result: Risk of serious damage to eyes. Assessment: Risk of serious damage to eyes. Method: OECD Test Guideline 405 GLP: yes Remarks: active ingredient

Remarks: May cause irreversible eye damage.

#### **Components:**

- Dicarboxylic acid ester with amine: Species: Rabbit Result: Risk of serious damage to eyes. Assessment: Risk of serious damage to eyes. Method: OECD Test Guideline 405 GLP: yes

#### 78-83-1 Isobutanol:

Species: Rabbit Result: Eye irritation Method: OECD Test Guideline 405 GLP: yes

#### Respiratory or skin sensitisation

#### Product:

Remarks: Causes sensitisation.



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/ersion 9	Revision Date 07/17/2020	Print Date 09/29/2022
Components: - Dicarboxylic acid ester wi Test Type: Mouse Local Lym Species: Mouse Assessment: May cause sensi Method: OECD Test Guidelin Result: May cause sensitisati GLP: yes 78-83-1 Isobutanol: Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig Method: OECD Test Guidelin	ph Node assay (LLNA) sitisation by skin contact. le 429 on by skin contact. t	
Method: OECD Test Guidelin Result: Does not cause skin s		
Result. Does not cause Skills		
Germ cell mutagenicity		
Components:		
<ul> <li>Dicarboxylic acid ester wi Genotoxicity in vitro</li> </ul>	th amine: : Test Type: Ames test Metabolic activation: with and withou Method: OECD Test Guideline 471 Result: negative GLP: yes	It metabolic activation
	: Test Type: In vitro mammalian cell g lymphoma)	ene mutation test (mouse
	Metabolic activation: with and withou Method: OECD Test Guideline 476 Result: positive GLP: yes	It metabolic activation
	: Test Type: Chromosome aberration Metabolic activation: with and withou Method: OECD Test Guideline 473 Result: positive GLP: yes	
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: Rat (male) Method: Mutagenicity (micronucleus Result: negative GLP: yes	
Carcinogenicity		
IARC	No component of this product present a equal to 0.1% is identified as probable,	
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	human carcinogen by IARC.	
OSHA	No component of this product present equal to 0.1% is on OSHA's list of reg	
NTP	No component of this product present equal to 0.1% is identified as a known by NTP.	
Reproductive toxicity		
Components:		
- Dicarboxylic acid este Effects on fertility	r with amine:	
	Species: Rat Sex: male and female Application Route: Oral NOAEL: > 300 mg/kg, F1: > 300 mg/kg, Method: OECD Test Guideline 422 GLP: yes	
Effects on foetal development	: Species: Rat > 300 mg/kg > 300 mg/kg Method: OECD Test Guideline 422 GLP: yes	
Repeated dose toxicity		
Product:		
Remarks: Intentional mis or fatal.	use by deliberately concentrating and inhaling	g vapors may be harmful
Components: - Dicarboxylic acid ester Species: Rat, male and fr NOAEL: 300 mg/kg Application Route: Oral Method: OECD Test Guid GLP: yes	emale	
Aspiration toxicity		
Components:		
<b>78-83-1 Isobutanol:</b> No aspiration toxicity class	prification	

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rsion 9	Revision Da	te 07/17/2020	Print Date 09/29/2022
Experience with hu	man exposure		
Product: Inhalation:	Symptoms:	irritating to the headaches, diz May cause CN	tions of vapors may be respiratory tract. May cause ziness, nausea and vomiting. S depression (drowsiness, ation and fatigue).
Skin contact:	Symptoms:	Contact will pro	bably cause irritation.
Eye contact:	Symptoms:	Contact will pro	bably cause irritation.
Ingestion:	Symptoms:		irritate the digestive tract and mptoms as inhalation.
	s of overexposure may be h		
Remarks: Symptoms vomiting., Concentra Solvents may degrea	tions substantially above th ase the skin.		
Remarks: Symptoms vomiting., Concentra Solvents may degrea	tions substantially above th ase the skin.		
Remarks: Symptoms vomiting., Concentra Solvents may degrea	tions substantially above thase the skin.		
Remarks: Symptoms vomiting., Concentra Solvents may degrea CTION 12. ECOLOGIC Ecotoxicity <u>Product:</u> Toxicity to fish	tions substantially above thase the skin. CAL INFORMATION : Remarks: No	e TLV value may caus	
Remarks: Symptoms vomiting., Concentra Solvents may degrea CTION 12. ECOLOGIC Ecotoxicity Product:	tions substantially above thase the skin. CAL INFORMATION : Remarks: No	e TLV value may caus data available	
Remarks: Symptoms vomiting., Concentra Solvents may degrea CTION 12. ECOLOGIC Ecotoxicity Product: Toxicity to fish Persistence and dea Product: Biodegradability Bioaccumulative po Product:	tions substantially above thase the skin. CAL INFORMATION : Remarks: No gradability : Remarks: No otential	e TLV value may caus data available data available	
Remarks: Symptoms vomiting., Concentra Solvents may degrea CTION 12. ECOLOGIC Ecotoxicity Product: Toxicity to fish Persistence and deg Product: Biodegradability Bioaccumulative po	tions substantially above thase the skin. CAL INFORMATION : Remarks: No gradability : Remarks: No	e TLV value may caus data available data available	

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Mobility in soil		
No data available		
Other adverse effects		
Product:		
Results of PBT and vPvB assessment	to be either persistent, bio	ontains no components considered baccumulative and toxic (PBT), or bioaccumulative (vPvB) at levels of
Regulation		rironment; Part 82 Protection of A Section 602 Class I Substances
Remarks		ains, nor was manufactured with a s defined by the U.S. Clean Air Act Subpt. A, App.A + B).
Additional ecological information	: There is no data available	e for this product.
CTION 13. DISPOSAL CONS	No data available	
<b>Disposal methods</b> EPA Hazardous Waste		
Disposal methods	DERATIONS : D001: Ignitable : Dispose of in accordance	with applicable local/municipal,
<b>Disposal methods</b> EPA Hazardous Waste Code(s)	DERATIONS : D001: Ignitable : Dispose of in accordance state/provincial and feder	al regulations.
<b>Disposal methods</b> EPA Hazardous Waste Code(s)	<ul> <li>DERATIONS</li> <li>: D001: Ignitable</li> <li>: Dispose of in accordance state/provincial and feder Do not dispose of waste i</li> </ul>	al regulations. nto sewer.
<b>Disposal methods</b> EPA Hazardous Waste Code(s)	<ul> <li>DERATIONS</li> <li>: D001: Ignitable</li> <li>: Dispose of in accordance state/provincial and feder Do not dispose of waste i</li> </ul>	al regulations. nto sewer. s, waterways or ditches with
<b>Disposal methods</b> EPA Hazardous Waste Code(s)	<ul> <li>DERATIONS</li> <li>: D001: Ignitable</li> <li>: Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er.
<b>Disposal methods</b> EPA Hazardous Waste Code(s) Waste from residues	<ul> <li>DERATIONS</li> <li>: D001: Ignitable</li> <li>: Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company.
<b>Disposal methods</b> EPA Hazardous Waste Code(s)	<ul> <li>DERATIONS</li> <li>: D001: Ignitable</li> <li>: Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s.
<b>Disposal methods</b> EPA Hazardous Waste Code(s) Waste from residues	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct. ainers.
<b>Disposal methods</b> EPA Hazardous Waste Code(s) Waste from residues	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct.
<b>Disposal methods</b> EPA Hazardous Waste Code(s) Waste from residues	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont Do not burn, or use a cutt</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct. ainers.
Disposal methods EPA Hazardous Waste Code(s) Waste from residues	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont Do not burn, or use a cutt</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct. ainers.
Disposal methods EPA Hazardous Waste Code(s) Waste from residues Contaminated packaging	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont Do not burn, or use a cutt</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct. ainers.
Disposal methods EPA Hazardous Waste Code(s) Waste from residues Contaminated packaging	<ul> <li>DERATIONS</li> <li>D001: Ignitable</li> <li>Dispose of in accordance state/provincial and feder</li> <li>Do not dispose of waste i Do not contaminate pond chemical or used contain Send to a licensed waste</li> <li>Empty remaining contents Dispose of as unused pro Do not re-use empty cont Do not burn, or use a cutt</li> </ul>	al regulations. nto sewer. s, waterways or ditches with er. management company. s. oduct. ainers.

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EPCRA - Emergency Planning and Community Right-to-Know Act US. EPA CERCLA Hazardous Substances (40 CFR 302)		Revision Date 07/17/2020	Print Date 09/29/2
IMDG-Code         UN number       : UN 1212         Proper shipping name       : ISOBUTANOL, SOLUTION         Class       : 3         Packing group       : III         Labels       : 3         EmS Code       : F-E, S-D         Marine pollutant       : no         Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code         Not applicable for product as supplied.         National Regulations         49 CFR         UN/ID/NA number       : UN 1212         Proper shipping name       : Isobutanol         Class       : 3         Packing group       : III         Labels       : 3         Proper shipping name       : Isobutanol         Class       : 3         Packing group       : III         Labels       : FLAMMABLE LIQUID         ERG Code       : 129         Marine pollutant       : no         Container sizes: 55 gallon drums, 5 or 6-gallon pails, 20z/16oz samples         CTION 15. REGULATORY INFORMATION         EPCRA - Emergency Planning and Community Right-to-Know Act         US. EPA CERCLA Hazardous Substances (40 CFR 302)         Components       CAS-No.       Component RQ       Calculated	Packing group Labels Packing instruction (cargo aircraft) Packing instruction	: III : Flammable Liquids : 366	
Not applicable for product as supplied.         National Regulations         49 CFR         UN/ID/NA number       : UN 1212         Proper shipping name       : Isobutanol         Class       : 3         Packing group       : III         Labels       : FLAMMABLE LIQUID         ERG Code       : 129         Marine pollutant       : no         Container sizes: 55 gallon drums, 5 or 6-gallon pails, 20z/16oz samples         CTION 15. REGULATORY INFORMATION         EPCRA - Emergency Planning and Community Right-to-Know Act         US. EPA CERCLA Hazardous Substances (40 CFR 302)         Components       CAS-No.         (Ibs)       (Ibs)         Isobutanol       78-83-1         5000       25000         SARA 304 - Emergency Release Notification         This material does not contain any components with a section 304 EHS RQ.         US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code	: ISOBUTANOL, SOLUTION : 3 : III : 3 : F-E, S-D	
49 CFR         UN/ID/NA number       :         Proper shipping name       :         Isobutanol         Class       :         Packing group       :         III         Labels       :         ERG Code       :         129         Marine pollutant       :         ino         Container sizes: 55 gallon drums, 5 or 6-gallon pails, 20z/16oz samples         CTION 15. REGULATORY INFORMATION         EPCRA - Emergency Planning and Community Right-to-Know Act         US. EPA CERCLA Hazardous Substances (40 CFR 302)         Components       CAS-No.         (lbs)       (lbs)         Isobutanol       78-83-1       5000         SARA 304 - Emergency Release Notification       This material does not contain any components with a section 304 EHS RQ.         US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)			d the IBC Code
UN/ID/NA number : UN 1212 Proper shipping name : Isobutanol Class : 3 Packing group : III Labels : FLAMMABLE LIQUID ERG Code : 129 Marine pollutant : no Container sizes: 55 gallon drums, 5 or 6-gallon pails, 20z/16oz samples CTION 15. REGULATORY INFORMATION EPCRA - Emergency Planning and Community Right-to-Know Act US. EPA CERCLA Hazardous Substances (40 CFR 302) Components CAS-No. Component RQ Calculated product RC (Ibs) (Ibs) Isobutanol 78-83-1 5000 25000 SARA 304 - Emergency Planning and Community Right-to-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	National Regulations		
EPCRA - Emergency Planning and Community Right-to-Know Act         US. EPA CERCLA Hazardous Substances (40 CFR 302)         Components       CAS-No.       Component RQ (lbs)       Calculated product RG (lbs)         Isobutanol       78-83-1       5000       25000         SARA 304 - Emergency Release Notification         This material does not contain any components with a section 304 EHS RQ.         US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code	: Isobutanol : 3 : III : FLAMMABLE LIQUID : 129 : no	amples
Isobutanol78-83-1500025000SARA 304 - Emergency Release NotificationThis material does not contain any components with a section 304 EHS RQ.US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title IIISection 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)			
SARA 304 - Emergency Release Notification This material does not contain any components with a section 304 EHS RQ. US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannin US. EPA CERCLA Hazardou	ORMATION ng and Community Right-to-Know s Substances (40 CFR 302) CAS-No. Compone	ent RQ Calculated product RC
This material does not contain any components with a section 304 EHS RQ. US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannin US. EPA CERCLA Hazardou Components	ORMATION ng and Community Right-to-Know s Substances (40 CFR 302) CAS-No. Compone (lbs	ent RQ Calculated product RC ) (lbs)
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannin US. EPA CERCLA Hazardou Components Isobutanol	ORMATION ng and Community Right-to-Know s Substances (40 CFR 302) CAS-No. Compone (lbs 78-83-1 500	ent RQ Calculated product RC ) (lbs)
	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannin US. EPA CERCLA Hazardou Components Isobutanol SARA 304 - Emergency Rele	ORMATION ng and Community Right-to-Know s Substances (40 CFR 302) CAS-No. Compone (Ibs 78-83-1 500) case Notification	ent RQ Calculated product RC ) (lbs) 0 25000
	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannin US. EPA CERCLA Hazardou Components Isobutanol SARA 304 - Emergency Rele This material does not contain US. EPA Emergency Plannin	ORMATION  Ing and Community Right-to-Know  Substances (40 CFR 302)  CAS-No. Compone (Ibs 78-83-1 500)  Case Notification any components with a section 30 and Community Right-To-Know	ent RQ Calculated product RQ (lbs) 0 25000 4 EHS RQ. w Act (EPCRA) SARA Title III
	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannie US. EPA CERCLA Hazardou Components Isobutanol SARA 304 - Emergency Rele This material does not contain US. EPA Emergency Plannie Section 302 Extremely Haza	ORMATION  Ing and Community Right-to-Know  S Substances (40 CFR 302)  CAS-No. Compone (lbs 78-83-1 5000  Case Notification any components with a section 30  Ing and Community Right-To-Kno rdous Substance (40 CFR 355, A	ent RQ Calculated product RG (lbs) 0 25000 4 EHS RQ. w Act (EPCRA) SARA Title III ppendix A)
	Container sizes: 55 gallon dru CTION 15. REGULATORY INF EPCRA - Emergency Plannie US. EPA CERCLA Hazardou Components Isobutanol SARA 304 - Emergency Rele This material does not contain US. EPA Emergency Plannie Section 302 Extremely Haza	ORMATION  Ing and Community Right-to-Know  S Substances (40 CFR 302)  CAS-No. Compone (lbs 78-83-1 5000  Case Notification any components with a section 30  Ing and Community Right-To-Kno rdous Substance (40 CFR 355, A	ent RQ Calculated product RG (lbs) 0 25000 4 EHS RQ. w Act (EPCRA) SARA Title III ppendix A)

## BYK-ES 80

BYK-ES 80				
Version 9	R	Revision Date 07/17/2020		Print Date 09/29/2022
SARA 311/312 Hazards	ha 20 ar of	er the June 13, 2016 Fede armonized the EPCRA 311 012 OSHA hazard commun nd labeling of chemicals (i. the SDS to identify the ap porting purposes.	/312 hazard ca nication standa e. GHS). Pleas	ategories with the Ird for classifying se refer to Section 2
SARA 302		o chemicals in this materia quirements of SARA Title		
SARA 313	kr	nis material does not conta nown CAS numbers that ex porting levels established	ceed the thres	hold (De Minimis)
Clean Air Act				
This product does not contain Act Section 112 (40 CFR 61).	any ha	azardous air pollutants (HA	NP), as defined	by the U.S. Clean Air
This product does not contain Accidental Release Prevention			I.S. Clean Air A	Act Section 112(r) for
The following chemical(s) are I	isted ι	under the U.S. Clean Air A	ct Section 111	SOCMI Intermediate or
Final VOC's (40 CFR 60.489): Isobutanol			78-83-1	20 %
Massachusetts Right To Kno	w			
Isobutanol			78-83-1	
Pennsylvania Right To Know				
Dicarboxylic Isobutanol	acid e	ster with amine	- 78-83-1	
New Jersey Right To Know				
		ster with amine 00963-5120	- 78-83-1	
<b>California Prop. 65</b> This product does not contain a defects, or any other reproduct			California to c	ause cancer, birth
CONEG Heavy Metal: We con sum of the incidental concentra not exceed 100 parts per millic	ation le	evels of lead, mercury, cac		
The components of this product are reported in the following inventories:				

### **BYK-ES 80**

Version 9	Revision Date 07/17/2020	Print Date 09/29/2022
TSCA	: We certify that all of the component listed on the TSCA Inventory or are notification requirements per 40 CF	not subject to the
Section 4 / 12(b)	: Not applicable	
TSCA Inventory Active List	All components of this product are li exempt	sted active and/or are
DSL	: We certify that all of the component on the DSL.	s of this product are listed

**C** BYK

#### **SECTION 16. OTHER INFORMATION**

**Revision Date** 

: 07/17/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.