

### AKESBO

Versi Form		Preparation Date: 11/26/2019 Revision Date: 11/26/2019
IDEN	NTIFICATION OF T	THE PRODUCT AND OF THE COMPANY/UNDERTAKING
.1 Prod	uct Identifier	
P	roduct Name	AKESBO
S	DS <sup>1</sup> No	193417/ GK01E
C	AS <sup>2</sup> No	8013-07-8
E	INECS <sup>3</sup> No	232-391-0
С	hemical Name	Soybean oil, epoxidized
.2 Relev	ant Identified Uses	Of The Product And Uses Advised Against
R	elevant Identified	ESBO is a secondary plasticizer that works in a synergistic way with
U	ses	metal stabilizers. It is used as a plasticizer component in flexible, semi- flexible and rigid PVC. Also prevents the yellowing that may occur with time in PVC product. ESBO gives flexibility to the product due to its high molecular weight and volatility, retards the adverse effects such as migration and extraction that may occur in PVC.
U	ses Advised Against	No data available.
	0	Of The Safety Data Sheet
	ıpplier	AK-KİM KİMYA SAN. VE TİC. A.Ş.
	ddress – Factory	Merkez Mahallesi, Ak-Kim Sokak, No:7 Taşköprü, Çiftlikköy / TURKEY
Te	elephone	+90 226 815 33 00
	ax	+90 226 353 25 32
	-mail	www.akkim.com.tr
In	formation Providing	g Authority About Safety Data Sheet
		Ali Haydar KETİR ali.ketir@akkim.com.tr
1.4 Eme	rgency Telephone N	
	ompany Emergency	+90 226 815 33 00
	1 2 0 2	$O^{*}$
. HAZ	ARDS IDENTIFICA	TION
2.1 Class	sification of the subs	tance or mixture
2.1.1 C	lassification Accord	ing to Regulation (EC) No 1272/2008
	•	classified as not hazardous according to regulation (EC) 1272/2008 [CLP].
2.2 Lab	el elements	
		to Regulation (EC) No 1272/2008 [CLP <sup>2</sup> /GHS <sup>3</sup> ]
	roduct Identifier	to Regulation (EC) No 1272/2008 [CEI 70115 ]
11	v	nont for Laboling
	•	nent for Labeling
71	• Not Applica	ible.
H	azard Pictograms	
~	Not Applic	able.
Si	gnal Word	
	• Not App	olicable.
H	azard Statements	
	Not App	plicable



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	Precautio	nary Stat	ements				
		eneral					
		-					
	Pr	evention					
		-					
	Re	sponse					
		-					
	Ste	orage					
		-					
	Di	sposal					
	~ -	-		(			
	Suppleme		ard Information	n (EU) Staten	nents		
	~	Non				<u>.</u>	
2.2.2.	Special R		Supplemental 1	Label Elemen	ts For Certain	Mixtures	
			None.			<b>&gt;</b>	
2.2.3.	Additiona		0		O ¥		
2.2.0			<i>Not Applicable.</i>				
	Other Haza				*		
2.3.1.	Skin Con		1 1 (1	<u> </u>			
			known harmful	effect.			
2.3.2.	Eye Conto		1 1 0 1	<u> </u>			
1 2 2			known harmful	effect.			
2.3.3.	Ingestion		1 1 1				
224			known harmful	effect.			
2.3.4.	Inhalati		1	<u> </u>			
225			known harmful	effect.			
2.3.5.	-	m effects					
226		o data ava					
2.3.6.			nental Effects				
227		ne.	nation				
2.3.7		al Inform	nanon				
	INC	one.					

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances **CLASSIFICATION** EINECS NO CONTENT (%) NAME CAS NO. CLP Soybean oil, epoxidized 232-391-0 8013-07-8 <=100 % Not Classified as hazardous 3.1.1 Additional information None .



According To Regulation (EC) No 1907/2006 (REACH)

### **AKESBO**

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4. FI	IRST AID MEASURES		
4.1 De	escription of first aid measures		
4.1.1	General information		
	In case of emergency, seek medical advice by showing	ng this safety data sheet.	
4.1.2	Following inhalation		
	• <i>Remove exposed person to rest in fresh air. If br Get medical attention.</i>	eathing has stopped, give artific	cial respiration
4.1.3	Following skin contact		
	<i>Remove contaminated clothing and shoes, do no Immediately flush affected areas with plenty of s</i>	0	ention.
4.1.4	Following eye contact		
	<ul> <li>Immediately flush eyes with plenty of water for a</li> <li>Eyelids should be kept open to ensure that all pa</li> <li>upper and lower lid should be held and opened b</li> </ul>	arts of the eye are thoroughly wo	ashed, and the
4.1.5	Following ingestion	~	
	<ul> <li>If person is conscious, rinse mouth with water an water to drink.</li> <li>Do not induce vomiting. In case of sleep, uncons anything by mouth. Get medical attention immediated attention atte</li></ul>	ciousness or loss of consciousn	
4.1.6	Self-protection of the first aider		
	· None.		
4.1.7	Notes for the doctor		
	· None.		
4.2 M	ost important symptoms and effects, both acute and	delayed	
	• Treat according to symptoms.		
4.3 In	dication of any immediate medical attention and spe	cial treatment needed	
	· None.		
	<u>, O'</u>		
5. <i>FI</i>	IRE-FIGHTING MEASURES		
5.1 E	Extinguishing media:		
5.1.1	Suitable Extinguishing media		
	• Use extinguishing media suitable for the environ	ment and type of fire.	
5.1.2	Unsuitable extinguishing media		
	· No data available.		
5.2 S	Special hazards arising from the substance or mixtur	e e	
. 2	• The product is not flammable.		

In the event of fire, sulfur oxides (SOx) and sodium oxides are released.

### 5.3 Advice for fire-fighters

- Wear protective gloves and clothing. Tanks and product
- *cool the packaging with water spray. Cool the portable packaging to a safe environment.*
- Do not approach containers that are suspected to be hot.
- Cool warmed packages from a sheltered area with water spray.
- Respiratory personnel during fire fighting



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	• In ord contr prohi <u>Speci</u>	protective clothing and avoid contact with clothing. der to ensure safe handling of the substance or mixture, take precautions to ol both fire and aerosol and dust formation. Smoking, eating and drinking bited in the application area. <u>Fal Rules for Handling:</u> I direct contact with the substance.	-
	<ul> <li>Use p</li> <li>Make</li> <li>Keep</li> </ul>	personal protective equipment, be sure not to exceed the specified exposure e sure the environment is well ventilated. away from heat, sources of ignition and do not smoke.	risk limit.
	Fire prev		
	• Keep	<u>ee for protection against fire and explosion:</u> firefighting equipment ready.	
		nental precautions:	
	• In ca	ot allow to enter sewers / surface or ground water. se of entering into water or sewage system, notify the competent authorities uthorities.	and inform
.1.2	Advice o	n general occupational hygiene	
		strial hygiene standards must be followed to avoid ingestion, contact with e g use of chemicals.	yes and skin
	• After	work, wash your hands with plenty of water and soap.	
		e sure there is good ventilation at work	
		ing, eating and drinking should not be allowed in the application area. aminated clothing and protective equipment should be removed before ente	rino dinino
	areas		ing anning
.2 Co	nditions f	for safe storage, including any incompatibilities	
	· Store	the product in its original packaging in a dry, cool and well-ventilated pla g and drinking should be prohibited in the environment.	ce. Smoking
		rve the manufacturer's storage and handling recommendations. Keep out o ght. Store away from direct sunlight at temperatures between + 5 and +35	
.2.1	Advice o	n common storage	
	-	away from food, drink and animal feeding areas.	
	-	away from sources of open fire, sparks and heat.	
		w the general rules for storing chemicals.	
.2.2		precautions on storage	1 .
		rol weather conditions, ambient temperature and pressure by aligning with	product
' 3 Sn	stora ecific end	ge standards.	
.5 SP	•	ata available	

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION** 8.

### 8.1 Control parameters

### 8.1.1 Occupational exposure limits

There is no current exposure limit for the product and its components.



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				ARESDO		
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8.2 Ex	xposure c	ontrols				
	· No a	lata available.				
8.2.1	Approp	riate engineerin	g controls:			
	case · If ne	of emergency,	injury or exposure	ers must be installed close ystem in accordance with		·
8.2.2	• Use cont diree	aminated, soiled and the source of the second second second second second second second second second second second second second	ntilated areas. Kee d clothing. Wash h eyes and skin. Do r	p away from food, drink o ands at the end of work a tot eat, drink or smoke an ent must comply with EN .	and after work binn of the second second second second second second second second second second second second s	eak, avoid
8.2.2.	1 Eye / Fa	ce protection:				
	· Wea	r chemical resis	stant gloves that co	omply with standards.	<b>ð</b>	
8.2.2.2	2 Skin pro	otection		.0 *		
	Hand p	rotection		4 O Y		
	Body pr • Wea		on, chemical prote	ective clothing.		
		rotection				
0.0.0		lata available.				
ð. <i>2.2</i> .:	· Und long	as adequate ve	ntilation is provide	tory protection equipment ed. In case of emergency equipment according to th	(spill, over-	as
8.2.3	_	mental exposu				
		obligations und		islation on environmental	l protection shou	ld be fully
9. PI	HYSICAL	AND CHEMI	CAL PROPERTI	ES		
9.1 In	formation	n on basic phys	ical and chemical	properties		
	,		Appearance	Liquid, Light yellow		
			Odor	Not available		
		Od	or Threshold	No data available		
					Value	

gor manon on basic physical and chemical	p. openees		
Appearance	Liquid, Light yellow		
Odor	Not available		
Odor Threshold	No data available		
	Value		
рН	Not available		
Melting point / freezing point;	0		
Initial boiling point and boiling range;	Decomposes at high temperatures.		



According To Regulation (EC) No 1907/2006 (REACH)

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	No data available				
	No data available				
	No data available				
or explosive	No data available				
	No data available				
	0.980- 0.990				
	No data available				
anol/water;	No data available No data available No data available				
e;					
	410 (max.)				
	No data available				
	No data available				
	No data available				
	No data available				
	or explosive	Revision Date:         No data available         No data available         No data available         or explosive         No data available         On data available         On data available         No data available         anol/water;         No data available         re;         No data available         You data available         No data available         No data available         No data available         No data available         No data available         No data available         No data available         No data available         No data available			

### 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

Maintains stability when used and stored in accordance with specifications.

#### 10.2 Chemical stability

• Stable at room temperature under normal storage and handling conditions in closed container.

### 10.3 Possibility of hazardous reactions

- • Decomposes at high temperatures.
- 10.4 Conditions to avoid:
  - None

### 10.5 Incompatible materials:

• • Strong oxidizing agents

### 10.6 Hazardous decomposition products:

No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute or chronic health hazards result from the substance.

### 11.1.1 Acute toxicity

- · LD50 Oral Rat male and female: > 5.000 mg/kg (OECD Test Guideline 401)
- · LD50 Dermal Rabbit: > 2.000 mg/kg

### 11.1.2 Skin corrosion/irritation and Eye damage/irritation:

Skin: Rabbit Result: Mild skin irritation.

Eye: Rabbit Result: Mild eye irritation (OECD Test Guideline 405)



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11.1.3 CMR effects	(Carcinog	enity):		
· IARC: No	componen	t of this product present at levels grea	iter than or equal to 0	.1% is
identified	as probabl	e, possible or confirmed human carci	nogen by IARC.	
1.1.4 CMR effects	(Mutageni	city and Toxicity for reproduction):		
	<u>tive toxicit</u>	<u>2</u> :		
None				
<u>Mutageni</u>	<u>city</u> :			
None		-		
11.1.5 Other Toxico				
0	00	lo data available		
Effects on Repeate		lo data available		
Chronic Ex	-			
		lo data available.		
Developmental (Teratoz	Toxicity genicity)	lo data available.	5	
	Fertility N	Io data available 🛛 🛛 🎽		
11.1.6 STOT-single	/repeated	exposures:		
STOT-single e	exposure N	Io data available 🛛 🖌 📿 🗸		
STOT-repeated e	exposure N	Io data available		
11.1.7 Symptoms rea	lated to the	physical, chemical and toxicological	l characteristics:	
In case of in	halation T	here is no known harmful effect.		
In case of skir	ı contact T	here is no known harmful effect.		
In case of eye	e contact 7	here is no known harmful effect.		
In case of i	ngestion T	here is no known harmful effect.		
11.1.8 Additional Te	oxicologica	l Information:		
$\cdot$ The overa	all toxicity of	of the mixture may differ from that of t	he ingredients.	
		e mixture as carcinogenic, mutagenic		ion is
calculated	l from the d	wailable information on the substance	es in the mixture and i	he substance
concentra	tions are to	iken into account.		

• For other health effects, the concentration of each substance is sufficient to contribute to the overall health effects of the mixture.

### 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

- Toxicity to fish;
- · LC50 Leuciscus idus (Golden orfe): 900 mg/l 48 h
- Toxicity to daphnia and other aquatic invertebrates;
- · EC50 Daphnia magna (Water flea): > 100 mg/l 24 h
- *Toxicity to algae;*
- · · · EC50 Desmodesmus subspicatus (green algae): 8 mg/l 72 h

### 12.2 Persistence and degradability

Decomposition Potential of the products	No data available
The half-life of degradation	No data available



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Potential degradation of product content evaluation of wastewater treatment plants		No data availabl	е		
12.3 Bioaccumulative potential					
Biological environment (biota) accumulat potential	tion	No data available	е		
Potential - nutrients pass through		No data available	e		
Reference Values - Log Kow , Sw and BC	CF	No data available	е		
12.4 Mobility					
Liquid, miscible with water. Refer to eco toxicity.					
Water threat class	No data available				
Clean Water Impact	No data available				
Known or predicted environmental distribution	No de	ata available			
12.5 Results of PBT and vPvB assessment					
Biotic		40	7		
Ready biodegradability:	Aerob	ic - Exposure time	e 28 d		
	Result	: 92 % <mark>- Rea</mark> dily l	biodegradable. (	OECD Test	
	Guide	line 301B			
Abiotic:					
Hydrolysis as a function of pH:	No da	ta available			
		ta available			
Photolysis:	No da	ia avallable			

• None

### 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste and used packaging must be disposed of in accordance with official regulations. Do not allow to enter surface and ground water, drinking water supplies, standing and flowing water, sewage system.

### 13.1.1 Contaminated packaging

- Dispose of in accordance with applicable regulations.
- Uncleaned packages should be disposed of in the same way as the product.
- 13.1.2 Disposal Methods
  - None

### 13.1.3 European Waste Catalogue

• No data available.

### 14. TRANSPORT INFORMATION

	ADR <sup>4</sup> /RID <sup>5</sup>	ADNR	IMDG <sup>6</sup>	ICAO <sup>7</sup> /IATA <sup>8</sup>	
TRANSPORTATION	Road	River	Marine	Airways	
14.1 UN/ID No.	-	-	-	-	
14.2 UN Proper Shipping Name	<i>e</i> Not classified as dangerous in the meaning of transport regulations.				
Symbol	-	-	-	-	





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-	-	-		-
-				
-				
-		-		
		No		
No data available				
Not applicable				
			Revision         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         No       No	Revision Date:         -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         -       -       -       -         No data available       -       -       -

### **15. REGULATORY INFORMATION**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Substance is found on the following regulatory lists;
- "European Union European Inventory of Existing Commercial Chemical Substances (EINECS) (English)"

### 15.2 Chemical Safety Assessment

No data available

### 15.2.1 HAZARD

- CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)
  - Not classified.

### 15.2.2 INTERNATIONAL REGULATIONS

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to EU Directive GHS/CLP.

### 16. OTHER INFORMATION

### 16.1 Other information

- For additional information regarding AK-KIM KIMYA SAN. VE TIC. ŞTİ. Products please contact the AK-KIM KIMYA SAN. VE TIC. A.S
- Ali Haydar KETİR <u>ali.ketir@akkim.com.tr</u>
- The above information complies with the 1907/2006 Directive and its amendments.
- In all cases of potential poisoning supportive therapy is of the utmost importance.

### 16.1.1 Related Person

- *Prepared by: M. Selçuk BİLGİN (selcuk.bilgin@doruksistem.com.tr)*
- Competent Person Accreditation No: TSE GBF-A-0-2707 21.12.2017
- <u>www.MsdsMarket.com</u>; <u>info@doruksistem.com.tr</u>;
- +902163378383 (contact for further information if needed)

### 16.1.2 Revision Date, Version and SDS no

- · Date: November 26, 2019
- Version :4.0
- · SDS No: 193480



According To Regulation (EC) No 1907/2006 (REACH)

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16.1.3 Reason of re-issue Compiling according to Regulation (EC) No 1272/2008 16.1.4 Relevant H- and EUH-phrases (number and full text): Not classified. 16.1.5 Legal disclaimer The purpose of the above information is to describe the products only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use. 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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text. The information given is designed only as guidance for safe handling, use, processing, storage,

<u>The information given is designed only as guidance for safe nanating, use, processing, storage,</u> <u>transportation, disposal and release and is not to be considered a warranty or quality</u> <u>specification. Due to the many factors outside our control when using this product, we cannot</u> <u>accept liability for any injury, accident, loss or damage caused through its use.</u>



- <sup>3</sup> GHS: Global Harmonised System
   <sup>4</sup> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- <sup>5</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- <sup>6</sup> IMDG: International Maritime Code for Dangerous Goods
- <sup>7</sup> ICAO: International Civil Aviation Organization
- <sup>8</sup> IATA: International Air Transport Association

<sup>&</sup>lt;sup>1</sup> SDS: Safety Data Sheet

<sup>&</sup>lt;sup>2</sup> CLP: Classification Labelling and Packaging