

Printing date 03.05.2010







RODUCT NAME: AKEMI PUTTY		(Contra - /
Response	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off ir contaminated clothing. Rinse skin with water/s P305+P351+P338 IF IN EYES: Rinse cautiously with water for s Remove contact lenses, if present and easy t rinsing.	hower. everal minute
Disposal	 P321 Specific treatment (see on this label). P501 Dispose of contents/container in accordance with local/regional/nation international regulations. During processing and product hardening the network generator is released fume. Consequently, take care for adequate air conditioning and for fur exhaustion on request. 	
Additional information:		
Composition/information or	ingredients	
Chemical characterization Description:	Mixture of substances listed below with nonhazardous additions.	
Dangerous components:		
	styrene ▓ Xn, ▓ Xi; R 10-20-36/38 Warning: � 2.6/3; � 3.1.I/4, 3.2/2, 3.3/2	12.5-25
CAS: 7779-90-0	trizinc bis(orthophosphate)	1-5%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide N; R 50/53	<1%
Additional information:	Warning: (4.1.A/1, 4.1.C/1 For the wording of the listed risk phrases refer to section 16.	
First-aid measures		
General information:	Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air. Symptoms of poisoning may even occur after several hours; the observation for at least 48 hours after the accident. Position and transport stably in side position.	erefore medi
After inhalation:	Supply fresh air. If required, provide artificial respiration. Keep Consult doctor if symptoms persist. In case of unconsciousness place patient stably in sid	
After skin contact:	transportation. Clean with water and soap. If possible, also wash with polyethyle If skin irritation continues, consult a doctor.	ne giycol 400
After eye contact:	Rinse opened eye for several minutes under running water. doctor.	Then consul
After swallowing:	Do not induce vomiting; call for medical help immediately. Drink plenty of water and provide fresh air. Call for a doctor imme	ediately.
Information for doctor:	With reference to section 2 the formulation contains styrene is mass concentration range. Styrene fumes will preferably be is inhalation via respiratory tract, skin resorption is currently co inferior way of incorporation. In case of inhalation styrene is ab 90% range. Distribution in organism occurs rapidly, the m concentration can be analyzed after one hour after incorpo- exposition affects skin, mucous membranes, and central nervous	ncorporated nsidered as sorbed in a 6 aximum blo ration. Styre



AKEMI[®]

RODUCT NAME: AKEMI PUTTY	
	(Contd. of page
	Acute damages / risks to health:
	In case of styrene poisoning mainly damages to and interactions with cennervous system (CNS) arise. In concentration ranges above 200 ml/ symptoms such as fatigue, nausea, imbalance and prolonged response tir
	are observed. Chronical health risks:
	Effects at central and peripheral nervous system and respiratory tract
	evident in literature.
	Main health risks are: - prolonged response times
	- reduced cognitive performance, partial amnesia
	 retardation of nervous impulse transition speed
The following symptoms may	- disturbances of pulmonary function
occur:	Breathing difficulty
	Headache
	Dizziness Dizziness
	Nausea
	Profuse sweating
Hazards	Danger of impaired breathing.
	Skin contact with polyester and epoxy resin solutions as ingredient of product should be avoided due to risks of skin irritations or allergic s
	appearances. If occasional hand contact can not be avoided, protection glo-
	proper protection ointments and protective agents generating a protective la
Treatment	on the skin were applied.
ricament	If swallowed, gastric irrigation with added, activated carbon. If swallowed or in case of vomiting, danger of entering the lungs.
Fire-fighting measures Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcoresistant foam.
For safety reasons unsuitable	
extinguishing agents: Special hazards caused by the	Water with full jet
substance, its products of	
combustion or resulting gases:	In case of fire, the following can be released:
	Carbon monoxide (CO) Hydrogen cyanide (HCN)
	Formation of toxic gases is possible during heating or in case of fire.
	roundlon of toxic gases is possible during nearing of in case of the
	Under certain fire conditions, traces of other toxic gases cannot be excluded.
Protective equipment:	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device.
Protective equipment:	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.
Protective equipment: Additional information	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance y
	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance v official regulations.
	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance official regulations.
Additional information	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance of official regulations. Collect contaminated fire fighting water separately. It must not enter the sew
	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance of official regulations. Collect contaminated fire fighting water separately. It must not enter the sew
Additional information Accidental release measures	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance v official regulations. Collect contaminated fire fighting water separately. It must not enter the sew system. Wear protective equipment. Keep unprotected persons away.
Additional information Accidental release measures Person-related safety	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance v official regulations. Collect contaminated fire fighting water separately. It must not enter the sew system. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
Additional information Accidental release measures Person-related safety	Under certain fire conditions, traces of other toxic gases cannot be excluded. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit. Dispose of fire debris and contaminated fire fighting water in accordance v official regulations. Collect contaminated fire fighting water separately. It must not enter the sew system. Wear protective equipment. Keep unprotected persons away.

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Safety Data Sheet according to 1907/2006/EC, Article 31



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(Contd. of page is respective authorities in case of seepage into water course or sewage n. It allow product to reach sewage system or any water course. It allow to enter sewers/ surface or ground water. It all
n. t allow product to reach sewage system or any water course. t allow to enter sewers/ surface or ground water. b with liquid-binding material (sand, diatomite, acid binders, univers s, sawdust). se contaminated material as waste according to item 13. e adequate ventilation. ection 7 for information on safe handling. ection 8 for information on personal protection equipment.
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ection 8 for information on personal protection equipment.
ection 8 for information on personal protection equipment. ection 13 for disposal information.
in cool, dry place in tightly closed receptacles.
away from heat and direct sunlight.
receptacles tightly sealed.
e good ventilation/exhaustion at the workplace. e good interior ventilation, especially at floor level. (Fumes are heavi
air).
nt formation of aerosols.
nly in well ventilated areas.
ignition sources away - Do not smoke.
ct against electrostatic charges.
ct from heat. s can combine with air to form an explosive mixture.
in a cool location.
only in the original receptacle.
ent any seepage into the ground.
away from foodstuffs.
ot store together with acids.
ot store together with alkalis (caustic solutions). away from oxidizing agents.
away nom onlocing agents.
ct from frost.
container tightly sealed.
in cool, dry conditions in well sealed receptacles. ct from heat and direct sunlight.
receptacle in a well ventilated area.

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PRODUCT NAME: AKEMI PUTTY	
· Additional information:	The lists valid during the making were used as basis. (Contd. of page 4)
Personal protective equipment: General protective and hygienic	
measures:	The usual precautionary measures are to be adhered to when handling chemicals.
	Do not eat, drink, smoke or sniff while working.
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing
	Wash hands before breaks and at the end of work.
	Avoid contact with the eyes and skin.
	Do not inhale gases / fumes / aerosols. Apply solvent resistant skin cream before starting work.
	Use skin protection cream for skin protection.
Respiratory protection:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
	Short term filter device: Filter A/P2
Protection of hands:	Preventive skin protection by use of skin-protecting agents is recommended.
	After use of gloves apply skin-cleaning agents and skin cosmetics.
	Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
	ARRETIL (http://www.stoko.com)
	Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
	STOKO EMULSION (http://www.stoko.com)
	Akemi skin protection recommendation for skin cleaning after product handling:
	SLIG SPEZIAL (http://www.stoko.com) Akemi skin protection agent recommendation for skin aftercare:
	STOKO VITAN (http://www.stoko.com)
	Protective gloves
	The glove material has to be impermeable and resistant to the
	product/ the substance/ the preparation.
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	The protection gloves to be used have to comply with the
	specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove
	type. The mentioned permeation times' data were generated and
	verified with material samples of the recommended protection glove
	type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.
	This recommendation refers exclusively to the material safety data
	sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with
	different substances or chemicals, and in condition of EN374 deviation
	the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell,
· Material of gloves	internet: http://www.kcl.de). Fluorocarbon rubber (Viton)
	The selection of the suitable gloves does not only depend on the material, but
· Penetration time of glove material	also on further marks of quality and varies from manufacturer to manufacturer.
reneration time of glove material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Value for the permeation: Level ≥ 6 , 480 min

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For the permanent contact gloves	
made of the following materials ar suitable:	Eluorocarbon rubber (Viton)
Sullable.	Vitoject (KCL, Art No. 890)
As protection from splashes glove	
made of the following materials ar	
suitable:	Fluorocarbon rubber (Viton)
	Vitoject (KCL, Art No. 890)
	Nitrile rubber, NBR
	Camatril (KCL, 730, 731, 732, 733)
	Butyl rubber, BR Butoject (KCL, Art No. 897, 898)
Not suitable are gloves made of	
the following materials:	Nitrile rubber, NBR
	Rubber gloves
	Neoprene gloves
	Natural rubber, NR
	Leather gloves
Eye protection:	Strong material gloves
Lyc protection.	Tightly sealed apagles
	Tightly sealed goggles
Body protection:	Solvent resistant protective clothing
Body protection.	
Physical and chemical properti General Information	es
General Information	
	Pasty According to product specification
General Information Form: Colour:	Pasty According to product specification light yellow
General Information Form:	Pasty According to product specification
General Information Form: Colour:	Pasty According to product specification light yellow
General Information Form: Colour: Odour: Change in condition Melting point/Melting range:	Pasty According to product specification light yellow Specific type Undetermined.
General Information Form: Colour: Odour: Change in condition	Pasty According to product specification light yellow Specific type
General Information Form: Colour: Odour: Change in condition Melting point/Melting range:	Pasty According to product specification light yellow Specific type Undetermined.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range:	Pasty According to product specification light yellow Specific type Undetermined. 145°C
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol %
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol %
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure at 20°C: Density at 20°C: Solubility in / Miscibility with	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol % 6 hPa 1.842 g/cm ³
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure at 20°C: Density at 20°C:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol % 6 hPa
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure at 20°C: Density at 20°C: Solubility in / Miscibility with water: Solvent content:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol % 6 hPa 1.842 g/cm³ Not miscible or difficult to mix.
General Information Form: Colour: Odour: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Ignition temperature: Self-igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapour pressure at 20°C: Density at 20°C: Solubility in / Miscibility with water:	Pasty According to product specification light yellow Specific type Undetermined. 145°C 32°C 480°C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixture are possible. 1.2 Vol % 8.9 Vol % 6 hPa 1.842 g/cm ³



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Stability a	nd reactiv	rity	
Thermal d	lecomposi	ition /	
conditions to be avoided:			No decomposition if used according to specifications.
			No decomposition if used and stored according to specifications.
Materials		and a second second second	
Dangerous	s reactions		Exothermic polymerization.
			Reacts with peroxides and other radical forming substances. Reacts with alkali (lyes).
			Reacts with acids.
Dangerou		osition	
products:			Carbon monoxide and carbon dioxide
			Phosphorus compounds
	alues rele	Vant IUI Class	SINCATION:
100-42-5	A second s	Vant IOI Class	SINCATION:
100-42-5 s Oral	styrene LD50	>2000 mg/k	sg (rat)
100-42-5 s Oral	styrene LD50 LC50/4 h	>2000 mg/k 11.8 mg/l (r	at)
100-42-5 s Oral Inhalative	styrene LD50 LC50/4 h LC50/4h	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 i	at) (mouse)
100-42-5 s Oral Inhalative 7779-90-0	styrene LD50 LC50/4 h LC50/4h trizinc bis	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos	sg (rat) at) (mouse) sphate)
100-42-5 s Oral Inhalative 7779-90-0 Oral	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 s(orthophos >5000 mg/k	sg (rat) at) (mouse) sphate)
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary in	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 s(orthophos >5000 mg/k	(mouse) sphate) (g (rat)
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary in on the skii	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n:	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 s(orthophos >5000 mg/k	ig (rat) at) (mouse) sphate) ig (rat) Irritant to skin and mucous membranes.
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary in on the skii on the eye	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e:	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 s(orthophos >5000 mg/k	ing (rat) at) (mouse) sphate) (g (rat) Irritant to skin and mucous membranes. Irritating effect.
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary in on the ski on the eye Sensitizat	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e:	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k	ig (rat) at) (mouse) sphate) ig (rat) Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known.
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary in on the ski on the eye Sensitizat	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: a: ion:	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k	isg (rat) at) (mouse) sphate) (g (rat) Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known. After incorporation and inhalation styrene predominantly will be metaboliz the organism to mandelic and phenylglyoxylic acid and matabolites will
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary irr on the skii on the eye Sensitizat Experient	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: a: ion: ce with hu	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k t:	ig (rat) at) (mouse) sphate) (g (rat) Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known. After incorporation and inhalation styrene predominantly will be metabolized
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary irr on the skii on the eye Sensitizat Experient Additiona	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e: ion: ce with hu	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k t:	interview of the secretion.
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary irr on the skii on the eye Sensitizat Experient	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e: ion: ce with hu	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k t:	isg (rat) at) (mouse) sphate) (g (rat) Irritant to skin and mucous membranes. Irritating effect. No sensitizing effects known. After incorporation and inhalation styrene predominantly will be metaboliz the organism to mandelic and phenylglyoxylic acid and matabolites will through urine excretion. The product shows the following dangers according to the calculation meth
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary irr on the skii on the eye Sensitizat Experient Additiona	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e: ion: ce with hu	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k t:	interview of the secretion.
100-42-5 s Oral Inhalative 7779-90-0 Oral Primary irr on the skii on the eye Sensitizat Experient Additiona	styrene LD50 LC50/4 h LC50/4h trizinc bis LD50 ritant effect n: e: ion: ce with hu	>2000 mg/k 11.8 mg/l (r 9.5 mg/m3 (s(orthophos >5000 mg/k t:	in the general EU Classification Guidelines for Preparations as issued in the

12 Ecological information

Ecotoxical effects:

-				
	· Acquatic toxicity:			
	100-42-5 styrene			
	EC10/16h	72 mg/l (pseudomonas putida)	1	
	EC50	5.5 mg/l (Photobac. phosphoreum)		
	EC50/16h	> 72.0 mg mg/l (pseudomonas putida)		
	EC50/48h	0.56 mg/l (green alga)		
		4.7 mg/l (daphnia magna)		
	EC50/72u	>1-<10 mg/l (green alga)		
	EC50/8d	> 200 mg/l (Scenedesmus quadricauda)		
	IC5/8d	> 200 mg/l (Scenedesmus quadricauda)		
		(Contd. on page 8	5	
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LC50/96h >1-<10 mg/l (piscis) 25.0 mg/l (lem) 32 mg/l (pimephales promelas) 7779-90-0 trizinc bis(orthophosphate) EC50/48h 28.2 mg/l (daphnia magna) ErC50/72h 11 mg/l (Desmodesmus subspicatus) 1.0 mg/l (joncorhynchus mykiss) Remark: Harmful to fish Additional ecological information: General notes: Do not allow product to reach ground water, water course or sewage system Water hazard class 2 (German Regulation) (Self-assessment): hazardou water Harmful to aquatic organisms 3 Disposal considerations Product: Recommendation Must not be disposed together with household garbage. Do not allow prod reach sewage system. European waste catalogue 20 00 00 20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL / INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20 01 02 separately collected fractions (except 15 01) 20 01 02 wastes from MFSU of adhesives and sealants (including waterproofing products) 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATTING IN waste afnesives and sealants (including waterproofing products) 08 04 09* waste afnesives and sealants containing dangerous substances <th>1050/301</th> <th></th> <th>(Contd. of page</th>	1050/301		(Contd. of page
25.0 mg/l (lem) 32 mg/l (gimephales prometas) 7779-90-01 trizinc bis(orthophosphate) EC50/48h 28.2 mg/l (daphnia magna) EC50/72h 11 mg/l (Desmodesmus subspicatus) LC50/96h 1.0 mg/l (Oncorhynchus mykiss) Remark: Harmful to fish Additional ecological information: Do not allow product to reach ground water, water course or sewage system General notes: Do not allow product to reach ground water, water course or sewage system 8 Disposal considerations Product: Recommendation Must not be disposed together with household garbage. Do not allow prod reach sewage system. European waste catalogue 10 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL / INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20 00 00 INNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, NDUSTRIAL / INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS 20 01 00 separately collected fractions (except 15 01) 20 01 27 paint, inks, adhesives and resins containing dangerous substances 08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATH (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING IN 08 04 00 waste adhesives and sealants containing organic solvents or other dangerous substances <th>IC50/72h</th> <th></th> <th>um capricornutum)</th>	IC50/72h		um capricornutum)
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Safety Data Sheet according to 1907/2006/EC, Article 31



Revision: 03.05.2010

Printing date 03.05.2010

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	No Without hardener component: no dangerous goods < 30 l
Air transport ICAO-TI and IATA-D	GR.
ICAO/IATA Class: UN/ID Number:	3
Label	3
Packaging group:	ĨII.
Remarks:	Without hardener component: 3/III UN 1866 Resin Solution
UN "Model Regulation":	_
Regulatory information	
Labelling according to EU	
guidelines:	The product has been classified and marked in accordance with EU Directi
	Ordinance on Hazardous Materials.
Code letter and hazard	
designation of product:	
	Xn Harmful
Hazard-determining components	
of labelling:	styrene
Risk phrases:	10 Flammable.
	20 Harmful by inhalation.36/38 Irritating to eyes and skin.
	52/53 Harmful to aquatic organisms, may cause long-term adverse effects in
	aquatic environment.
Safety phrases:	2 Keep out of the reach of children.
	23 Do not breathe fumes.
	24/25 Avoid contact with skin and eyes.
	26 In case of contact with eyes, rinse immediately with plenty of water seek medical advice.
	27/28 After contact with skin, take off immediately all contaminated clot
	and wash immediately with plenty of water and soap.
	29/56 Do not empty into drains, dispose of this material and its contain
	hazardous or special waste collection point. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
	38 In case of insufficient ventilation, wear suitable respiratory equipme
	46 If swallowed, seek medical advice immediately and show this contract of the seek medical advice immediately and show this contract.
	or label. 51 Use only in well-ventilated areas.
National regulations:	or Ose only in weil-vertiliated dreas.
National regulations:	
Information about limitation of use:	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must observed.
Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.
	(Contd. on page



Printing date 03.05.2010

PRODUCT NAME: AKEMI PUTTY

	(Contd. of page 9
Other information	
This information is based on our p product features and shall not esta	present knowledge. However, this shall not constitute a guarantee for any specific ablish a legally valid contractual relationship.
Relevant R-phrases	 Flammable. Harmful by inhalation. 36/38 Irritating to eyes and skin. 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. refer to Technical Data Sheet (TDS)
Department issuing MSDS: Contact: Abbreviations and acronyms:	Laboratory Dieter Zimmermann ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europea Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin d fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals LC50: Lethal concentration, 50 percent