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-		according to 1907/2006/EC, Article 31		
Prii	nting date 01.07.2013		Revision: 0	9.05.2013
	SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking		
	1.1 Product identifier	noo, mixture and or the company, and channing		
	Trade name	Zirconium(IV) oxide 2-ethylhexanoate, in mineral spin	<u>rits</u>	
	Stock number: 1.2 Relevant identified uses of the substance	39543		
	or mixture and uses advised against.	No further relevant information available.		
	Identified use:	SU24 Scientific research and development		
	1.3 Details of the supplier of the safety data s Manufacturer/Supplier:	sheet Alfa Aesar GmbH & Co.KG		
		A Johnson Matthey Company		
		Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300		
		Tel: +49 (0) 721 84007 280		
		Email: tech@alfa.com		
	Informing department:	www.alfa.com Product safety Tol + 1040 (0) 7275 088687 0		
	1.4 Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency numb	er)	
		Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240		
	SECTION 2: Hazards identification			
	2.1 Classification of the substance or mixture	e No 1979/2008		
	Classification according to Regulation (EC)	NO 1272/2008		
	GHS02 flame			
	Flam. Liq. 3 H226 Flammable liquid and vapou	ır.		
	Classification according to Directive 67/548/			
	R10: Flammable.			
	Information concerning particular hazards for human and environment:	<b></b>		
	for numan and environment:	The product has to be labelled due to the calculation procedure of the ' preparations of the EU" in the latest valid version.	General Classification guidelin	e tor
	Other hazards that do not result in			
	classification	No information known.		
	2.2 Label elements Labelling according to Regulation (EC) No			
	Labelling according to Regulation (EC) No 1272/2008	The product is classified and labelled according to the CLP regulation.		
	Hazard pictograms Signal word	GHS02 Warning		
	Hazard statements Precautionary statements	H226 Flammable liquid and vapour	ces - No smoking	
	recoulionary statements	P210 Keep away from heat/sparks/open flames/hot surfac P241 Use explosion-proof electrical/ventilating/lighting/eq P280 Wear protective gloves/protective clothing/eye prote P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately	uipment.	
		P280 Wear protective gloves/protective clothing/eye prote P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately	ection/face protection.	se skin
		With water/snower.		
		P403+P235 Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with lo	cal/regional/national/internatior	nal
	2.3 Other hazards	regulations.	0	
	Results of PBT and vPvB assessment			
	PBT: vPvB:	Not applicable. Not applicable.		
	PBT: vPvB:	Not applicable.		
	PBT: vPvB: SECTION 3: Composition/information o	Not applicable.		
	PBT: vPvB: SECTION 3: Composition/information o 3.2 Mixtures	Not applicable.		
	PBT: vPvB: SECTION 3: Composition/information o	Not applicable.	R10	80.0%
	PBT: vPvB: SECTION 3: Composition/information o 3.2 Mixtures Dangerous components: 64475-85-0 Mineral spirits	Not applicable.	R10	_ 80,0%
	PBT: vPvB: SECTION 3: Composition/information o 3.2 Mixtures Dangerous components: 64475-85-0 Mineral spirits Additional information	Not applicable. In ingredients		_ 80,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9       Zirconium(IV) oxide 2-ethy	Not applicable. on ingredients None known.		_ 80,0%
	PBT: vPvB: SECTION 3: Composition/information o 3.2 Mixtures Dangerous components: 64475-85-0 Mineral spirits Additional information Non-Hazardous Ingredients	Not applicable. on ingredients None known.		
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Non-Hazardous Ingredients         CAS: 22464-99-9       Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1       Zirconium(IV)	Not applicable. on ingredients None known.		
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9       Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1       SECTION 4: First aid measures	Not applicable. on ingredients None known.		
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Non-Hazardous Ingredients         CAS: 22464-99-9       Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1       Zirconium(IV)	Not applicable. on ingredients None known. //hexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v	Image: Flam. Liq. 3, H226	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Mon-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1       Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         4.1 Description of first aid measures         After inhalation	Not applicable.	Image: Flam. Liq. 3, H226	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         3.2 Mixtures         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS:       22464-99-9         EINECS:       245-018-1         SECTION 4: First aid measures         4.1 Description of first aid measures	Not applicable. In ingredients None known. Ihexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	Image: Flam. Liq. 3, H226	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Additional information         Non-Hazardous Ingredients         CAS:       22464-99-9         EINECS:       245-018-1         Zirconium(IV) oxide 2-ethy         EINECS:       245-018-1         SECTION 4: First aid measures         After inhalation         After skin contact         After eye contact	Not applicable.  In ingredients  None known.  Ihexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Ongerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS:       22464-99-9         EINECS:       245-018-1         SECTION 4: First aid measures         4.1 Description of first aid measures         After skin contact         After eye contact         After swallowing	Not applicable.  In ingredients  None known.  Ihexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Additional information         Non-Hazardous Ingredients         CAS:       22464-99-9         EINECS:       245-018-1         SECTION 4: First aid measures         4.1 Description of first aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed	Not applicable.  In ingredients  None known.  Ihexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Jangerous components:         G4475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS:       22464-99-9         EINECS:       245-018-1         Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         A1       Description of first aid measures         After inhalation       After skin contact         After swallowing       4.2 Most important symptoms and effects.	Not applicable. In ingredients None known. //hexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then cons Seek medical treatment.	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0 Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1       Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         A1 Description of first aid measures         After skin contact         After eye contact         After skin contact         After and delayed         4.3 Indication of any immediate medical attention and special treatment needed	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available.	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available.	Flam. Liq. 3, H226 varm. Consult doctor if symptor	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0       Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1       Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         A1 Description of first aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         AI Indication of any immediate medical attention and special treatment needed	Not applicable. In ingredients None known. None known. None known. None known. None known. None known. Network a start of the second start	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         S.1 Extinguishing media         Suitable extinguishing agents         S.2 Special hazards arising from the	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0       Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1       Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         A1 Description of first aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         AI Indication of any immediate medical attention and special treatment needed	Not applicable. In ingredients None known. None known. None known. None known. None known. Not apply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture	Not applicable.  In ingredients  None known.  None known.  None known.  None known.  None known.  Nexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available. No further relevant information available.  CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released:	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         S.1 Extinguishing media         Suitable extinguishing agents         S.2 Special hazards arising from the	Not applicable.  In ingredients  None known.  None known.  None known.  None known.  None known.  No further relevant information available.  No further relevant information available.  CO2, extinguishing powder or water jet. Fight larger fires with water jet  If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide  Wear self-contained breathing apparatus.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After symptoms and effects, both acute and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters	Not applicable. In ingredients None known. None known. None known. None known. None known. No further relevant information available. No further relevant information available.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         After skin contact         After swallowing         4.1 Description of first aid measures         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         After symptoms and effects, both acute and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide Wear self-contained breathing apparatus. Wear full protective suit.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Ongerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         S.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measures         6 1 Personal precautions, protective	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide Wear self-contained breathing apparatus. Wear full protective suit. es	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Dangerous components:         64475-85-0       Mineral spirits         Additional information       Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1       Zirconium(IV) oxide 2-ethy         SECTION 4: First aid measures         After skin contact       After eye contact         After swallowing       4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         5.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measures	Not applicable. In ingredients None known. Whexanoate Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consi Seek medical treatment. No further relevant information available. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide Wear self-contained breathing apparatus. Wear full protective suit.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Ongerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         S.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measures         6 1 Personal precautions, protective	Not applicable.  In ingredients  None known.  Ihexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then cons Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Wear self-contained breathing apparatus. Wear full protective suit.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor. or alcohol-resistant foam.	20,0%
	PBT:       vPvB:         SECTION 3: Composition/information o         Ongerous components:         64475-85-0         Mineral spirits         Additional information         Non-Hazardous Ingredients         CAS: 22464-99-9         EINECS: 245-018-1         Zirconium(IV) oxide 2-ethy         EINECS: 245-018-1         SECTION 4: First aid measures         After skin contact         After skin contact         After swallowing         4.2 Most important symptoms and effects, both acute and delayed         4.3 Indication of any immediate medical attention and special treatment needed         SECTION 5: Firefighting measures         5.1 Extinguishing media         Suitable extinguishing agents         5.2 Special hazards arising from the substance or mixture         S.3 Advice for firefighters         Protective equipment:         SECTION 6: Accidental release measures         6 1 Personal precautions, protective	Not applicable.  In ingredients  None known.  Ihexanoate  Supply fresh air. If required, provide artificial respiration. Keep patient v persist. Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then cons Seek medical treatment. No further relevant information available. No further relevant information available. CO2, extinguishing powder or water jet. Fight larger fires with water jet If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Metal oxide Wear self-contained breathing apparatus. Wear full protective suit.	Flam. Liq. 3, H226 varm. Consult doctor if symptor ult doctor. or alcohol-resistant foam.	20,0%

	according to 1907/2006/EC, Article 31
Printing date 01.07.2013	Revision: 09.05.2013
Trade name Zirconium(IV) oxide 2-ethylh	exanoate, in mineral spirits
	(Contd. of page 1)
6.2 Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Prevention of secondary hazards:	Keep away from ignition sources
6.4 Reference to other sections	See Section 7 for information on safe handling See section 8 for information on personal protection equipment.
	See Section 13 for information on disposal.
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	Keep containers tightly sealed.
	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Protect against electrostatic charges.
	Fumes can combine with air to form an explosive mixture.
7.2 Conditions for safe storage, including an Storage	y incompatibilities
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common	
storage facility: Further information about storage	Store away from oxidizing agents.
conditions:	Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure controls/persona	al protection
Additional information about design of	
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
8.1 Control parameters	
Components with critical values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored
Additional information:	at the workplace. No data
8.2 Exposure controls	
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals.
	Keep away from foodstuffs, beverages and food
	Instantly remove any solled and impregnated garments. Wash hands during breaks and at the end of the work.
Breathing equipment:	Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations.
Protection of hands:	Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Material of gloves	and varies from manufacturer to manufacturer.
Material of gloves Penetration time of glove material	Not determined
Eye protection:	Safety glasses Face protection
Body protection:	Protective work clothing.
SECTION 9: Physical and chemical pro	
9.1 Information on basic physical and chemi General Information	cal properties
Appearance: Form:	Liquid
Smell: Odour threshold:	Not determined Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
Sublimation temperature / start:	Not determined
Flash point: Inflammability (solid, gaseous)	40 °C Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Self-inflammability:	Product is not selfigniting.
Critical values for explosion: Lower:	Not determined
Upper: Steam pressure:	Not determined Not determined
Density	Not determined
Relative density Vapour density	Not determined. Not determined.
Evaporation rate Solubility in / Miscibility with	Not determined.
Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix Not determined.
Viscosity:	
dynamic: kinematic:	Not determined. Not determined.
Solvent content: Organic solvents:	0.0 %
Solids content:	20,0 %
9.2 Other information	No further relevant information available.

Page 3/4

## Trade name Zirconium(IV) oxide 2-ethylhexanoate, in mineral spirits

	(Contd. of page 2)
SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be	No information known. Stable under recommended storage conditions.
avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	No decomposition if used and stored according to specifications. Reacts with strong oxidizing agents Oxidizing agents Carbon monoxide and carbon dioxide Metal oxide
SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.
LD/LC50 values that are relevant for classification: Skin irritation or corrosion: Eye irritation or corrosion: Sensitization: Germ cell mutagenicity: Carcinogenicity:	No data May cause irritation May cause irritation No sensitizing effect known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: Specific target organ system toxicity - repeated exposure: Specific target organ system toxicity - single exposure:	No effects known. No effects known. No effects known.
Aspiration hazard: Additional toxicological information:	No effects known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information 12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available.
General notes:	Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT: vPvB: 12.6 Other adverse effects	Not applicable. Not applicable. No further relevant information available.
SECTION 13: Disposal considerations 13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
UN-Number ADR, IMDG, IATA	UN1268
14.2 UN proper shipping name ADR IMDG, IATA	1268 PETROLEUM DISTILLATES, N.O.S. PETROLEUM DISTILLATES, N.O.S.
14.3 Transport hazard class(es) ADR Class Label	3 (F1) Flammable liquids.
IMDG, IATA	O Florenski k Versida
Class Label Packing group	3 Flammable liquids. 3
Packing group ADR, IMDG, IATA 14.5 Environmental hazards:	III
14.5 Environmental nazards: Marine pollutant: 14.6 Special precautions for user	No Warning: Flammable liquids.
Kemler Number: EMS Number:	30 F-E,S-E
14.7 Transport in bulk according to Annex II Code	of MARPOL73/78 and the IBC Not applicable.
Transport/Additional information: ADR	
Excepted quantities (EQ): Limited quantities (LQ) Transport category	E1 5L 3
	(Contd. on page 4) DE/E

Page 4/4

Revision: 09.05.201		
/lhexanoate, in mineral spirits		
(Contd. of page		
D/E		
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III		
ulations/legislation specific for the substance or mixture		
22464-99-9 Zirconium(IV) oxide 2-ethylhexanoate Standard for the Uniform Scheduling of Drugs and Poisons		
For use only by technically qualified individuals. A II		
Water hazard class 1 (Self-assessment): slightly hazardous for water. tive regulations		
cal Substances)		
Substances of very high concern (SVHC) according to REACH, Article 57		
A Chemical Safety Assessment has not been carried out.		
as a supplement to other information gathered by them, and should make independent judgement of suitability of otect the health and safety of employees. This information is furnished without warranty, and any use of the produc Data Sheet, or in combination with any other product or process, is the responsibility of the user.		
H226 Flammable liquid and vapour.		
R10 Flammable. eet: Health, Safety and Environmental Department. ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals VDF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent		