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4 Islandification			
1 Identification			
· Product identifier · Trade name:	Transformer		
<u>Article number:</u> Application of the substance / the	12042, 12043, 120 e	44	
mixture	Protective impregr	ation	
· Details of the supplier of the s	afety data sheet		
Manufacturer/Supplier:	InnoChem LLC 4030 Pleasantdale Suite F Doraville, GA 3034		Phone: 770-409-878 Fax: 770-409-909 e-mail info@innochemllc.co
Information department: Emergency telephone number:	Laboratory Refer to Manufact	ırer / Supplier	
2 Hazard(s) identification			
	• .		
<u>Classification of the substance</u>	e or mixture		
GHS02 Flame			
\checkmark			
Flam. Liq. 3 H226 Flammable li	iquid and vapor.		
$\mathbf{\wedge}$			
GHS07			
\mathbf{v}			
Eye Irrit. 2A H319 Causes serie	ous eye irritation.		
STOT SE 3 H336 May cause d	Irowainaga ar dizzinag		
STOT OF STIDSO May cause t	nowsiness of dizzines	δ.	
• Label elements		6.	
Label elements GHS label elements			ing to the Globally Harmonize
· Label elements	The product is cla		ing to the Globally Harmonize
Label elements GHS label elements	The product is cla		ing to the Globally Harmonize
Label elements GHS label elements	The product is cla System (GHS).		ing to the Globally Harmonize
 Label elements GHS label elements Hazard pictograms Signal word 	The product is cla System (GHS). GHS02 GHS07 Warning		ing to the Globally Harmonize
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate	assified and labeled accordi	ing to the Globally Harmonize
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I	assified and labeled accordi	ing to the Globally Harmonize
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie	assified and labeled accordi iquid and vapor. bus eye irritation.	ing to the Globally Harmonize
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie	assified and labeled accordi quid and vapor. bus eye irritation. Irowsiness or dizziness.	
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause o P210 P261	assified and labeled accordi ous eye irritation. Irowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours.	s/open flames/hot surfaces N
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause o P210 P261 P261 P280	assified and labeled accordi ous eye irritation. Irowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye	s/open flames/hot surfaces N protection.
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause of P210 P261 P261 P280 P302+P352	assified and labeled accordi ous eye irritation. Irowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye If on skin: Wash with plenty o	s/open flames/hot surfaces N protection. of water.
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause of P210 P261 P280 P302+P352 P304+P312	assified and labeled accordi quid and vapor. bus eye irritation. Irowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye If on skin: Wash with plenty of IF INHALED: Call a POISO unwell.	s/open flames/hot surfaces N protection. of water. ON CENTER/doctor if you fe
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause of P210 P261 P280 P302+P352 P304+P312	assified and labeled accordi quid and vapor. bus eye irritation. rowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye If on skin: Wash with plenty of IF INHALED: Call a POISO unwell. If in eyes: Rinse cautiously Remove contact lenses, if p	s/open flames/hot surfaces N protection. of water. DN CENTER/doctor if you fe with water for several minute
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is cla System (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause of P210 P261 P280 P302+P352 P304+P312	assified and labeled accordi quid and vapor. bus eye irritation. Irowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye If on skin: Wash with plenty of IF INHALED: Call a POISO unwell. If in eyes: Rinse cautiously	s/open flames/hot surfaces N protection. of water. ON CENTER/doctor if you fer with water for several minuter resent and easy to do. Continu
 Label elements GHS label elements Hazard pictograms Signal word Hazard-determining components of labeling: Hazard statements 	The product is classystem (GHS). GHS02 GHS07 Warning ethyl acetate H226 Flammable I H319 Causes serie H336 May cause of P210 P261 P280 P302+P352 P304+P312 P305+P351+P338	assified and labeled accordi quid and vapor. bus eye irritation. rowsiness or dizziness. Keep away from heat/sparks smoking. Avoid breathing vapours. Wear protective gloves / eye If on skin: Wash with plenty of IF INHALED: Call a POISO unwell. If in eyes: Rinse cautiously Remove contact lenses, if p rinsing. Store in a well-ventilated place	s/open flames/hot surfaces N protection. of water. DN CENTER/doctor if you fee with water for several minutes resent and easy to do. Continu ce. Keep cool. iner in accordance with loca

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(Contd. on page 3)

· Classification system:	(Contd. of page
• NFPA ratings (scale 0 - 4)	Health = 2
	3 Fire = 3
	2 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)	HEALTH 2 Health = 2
	FIRE 3 Fire = 3
	Reactivity = 0
· Other hazards	
Results of PBT and vPvB ass	
· <u>PBT:</u>	Not applicable.
· <u>vPvB:</u>	Not applicable.
3 Composition/information of	n ingredients
· Chemical characterization:	Mixtures
Description:	Mixture: consisting of the following components.
Dangerous components:	
CAS: 141-78-6	ethyl acetate 50-100%
EINECS: 205-500-4	Flam. Liq. 2, H225
Index number: 607-022-00-5	
CAS: 67-56-1 EINECS: 200-659-6	methanol <1%
Index number: 603-001-00-X	Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
	STOT SE 1, H370
Additional information:	For the wording of the listed hazard phrases refer to section 16.
 Description of first aid mea General information: After inhalation: 	Take affected persons out of danger area and lay down. Immediately remove any clothing soiled by the product. Supply fresh air; consult doctor in case of complaints. In case of unconsciousness place patient stably in side position for
· After skin contact:	transportation. Immediately rinse with water.
· After eye contact:	If skin irritation continues, consult a doctor. Rinse opened eye for several minutes under running water. If symptoms persis
· After swallowing:	consult a doctor. Rinse out mouth and then drink plenty of water.
Information for doctor:	If symptoms persist consult doctor.
 Most important symptoms an effects, both acute and delaye Indication of any immediate 	
medical attention and special	
treatment needed	No further relevant information available.
5 Fire-fighting measures	
Extinguishing modia	
· Eximulation media	s: CO2, extinguishing powder or water spray. Fight larger fires with water spray
Extinguishing media Suitable extinguishing agents	alcohol resistant foam.
 Suitable extinguishing agents For safety reasons unsuitable 	alcohol resistant foam.
 Suitable extinguishing agents For safety reasons unsuitable extinguishing agents: 	alcohol resistant foam. e Water with full jet
Suitable extinguishing agents For safety reasons unsuitable	alcohol resistant foam. e Water with full jet

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ade name: T			
			(Contd. of page
· Advice for	firafiabtors	Carbon monoxide (CO)	
· Protective e		Mount respiratory protective device.	
	quipinona	Wear fully protective suit.	
· Additional	information	Cool endangered receptacles with water spray.	
		Collect contaminated fire fighting water separately. It must not ent system.	er the sewag
6 Accidental	release measures		
	recautions, protectiv	<u>e</u>	
procedures	and emergency	Wear protective equipment. Keep unprotected persons away.	
procedures	2	Keep away from ignition sources	
·Environme	ntal precautions:	Do not allow product to reach sewage system or any water course.	
	-	Prevent seepage into sewage system, workpits and cellars.	
		Inform respective authorities in case of seepage into water cour	se or sewag
		system.	
· Methods ar	nd material for	Do not allow to enter sewers/ surface or ground water.	
	nt and cleaning up:	Dispose contaminated material as waste according to item 13.	
	_	Absorb with liquid-binding material (sand, diatomite, acid bind	ers, univers
		binders, sawdust).	
		Ensure adequate ventilation.	
· <u>Reference</u>	to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.	
		See Section 13 for disposal information.	
· Protective	Action Criteria for Ch		
· PAC-1:			
· <u>PAC-1:</u> 141-78-6 et	thyl acetate		1,200 ppn
	•		1,200 ppm 530 ppm
141-78-6 et	•		
141-78-6 et 67-56-1 m	nethanol		530 ppm
141-78-6 et 67-56-1 m · PAC-2:	thyl acetate		530 ppm 1,700 ppn
141-78-6 et 67-56-1 m · PAC-2: 141-78-6 et 141-78-6 et 67-56-1 m · PAC-3: · PAC-3: · PAC-3: · PAC-3: · PAC-3:	thyl acetate nethanol		530 ppm 1,700 ppn 2,100 ppn
141-78-6 et 67-56-1 m · PAC-2: 141-78-6 141-78-6 et 67-56-1 m	thyl acetate nethanol thyl acetate		

7 Handling and storage

· Handling:

Precautions for safe handling	Keep receptacles tightly sealed.
	Ensure good interior ventilation, especially at floor level. (Fumes are heavier
	than air).
	Ensure good ventilation/exhaustion at the workplace.
 Information about protection 	
against explosions and fires:	Keep ignition sources away - Do not smoke.
	Protect against electrostatic charges.
· Conditions for safe storage, incl	uding any incompatibilities
Storage:	
 Requirements to be met by 	
storerooms and receptacles:	Store in a cool location.
Information about storage in one	
common storage facility:	Store away from foodstuffs.

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	(Contd. of page 3)
 Further information about storage conditions: 	
condutions.	Protect from frost. Keep receptacle tightly sealed.
	Store in cool, dry conditions in well sealed receptacles.
• <u>Storage class:</u>	3 Na furth an relevant information quailable
· Specific end use(s)	No further relevant information available.
8 Exposure controls/personal pro	otection
· Additional information about	
design of technical systems:	No further data; see item 7.
Control parameters	
	require monitoring at the workplace:
141-78-6 ethyl acetate	-2.400
PEL Long-term value: 1400 mg/n	
REL Long-term value: 1400 mg/n	
TLV Long-term value: 1440 mg/n 67-56-1 methanol	1°, 400 ppm
PEL Long-term value: 260 mg/m ³	200 ppm
REL Short-term value: 325 mg/m	
Long-term value: 260 mg/m ³	
Skin	
TLV Short-term value: 328 mg/m	
Long-term value: 262 mg/m ³ Skin; BEI	s, 200 ppm
Ingredients with biological limit val	ues:
67-56-1 methanol	
BEI 15 mg/L	
Medium: urine	
Time: end of shift Parameter: Methanol (backgi	round popspecific)
Additional information:	The lists that were valid during the creation were used as basis.
Exposure controls	
Personal protective equipment:	
· General protective and hygienic	
measures:	Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
	Do not inhale gases / fumes / aerosols.
	Avoid contact with the eyes and skin.
Breathing equipment:	Short term filter device: Filter A/P2
	In case of brief exposure or low pollution use respiratory filter device. In case of
	intensive or longer exposure use respiratory protective device that is
Ducto stice of heads	independent of circulating air.
 Protection of hands: 	
	Protective gloves
	The glove material has to be impermeable and resistant to the
	product/ the substance/ the preparation.
	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
	(Contd. on page 5)

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	(Contd. of page 4) 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, internet: http://www.kcl.de). Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration
• Material of gloves	times, rates of diffusion and the degradation 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked
Penetration time of glove material	prior to the application. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 For the permanent contact gloves made of the following materials are suitable: As protection from splashes gloves 	Butyl rubber, BR
made of the following materials are suitable:	Butoject (KCL, Art_No. 897, 898) Butyl rubber, BR
Not suitable are gloves made of the following materials:	Strong gloves Synthetic gloves
Eye protection:	Tightly sealed goggles
Body protection:	Solvent resistant protective clothing
9 Physical and chemical properties	S
Information on basic physical an	d chemical properties
General Information Appearance:	
Form:	Fluid
<u>Color:</u>	Opaque
· <u>Odor:</u> · Odor threshold:	Specific type Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 76 °C (168.8 °F)
· Flash point:	> 23 °C (>73.4 °F)
· Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	460 °C (860 °F)
Decomposition temperature:	Not determined.

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	(Contd. of page 5)
<u>Auto igniting:</u>	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
• <u>Explosion limits:</u> Lower: Upper:	2.1 Vol % 11.5 Vol %
 Vapor pressure at 20 °C (68 °F): 	97 hPa (72.8 mm Hg)
 Density at 20 °C (68 °F): 	0,96 g/cm³ (8.01 lbs/gal)
 Specific gravity: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not determined. Not determined.
<u>Solubility in / Miscibility with</u> <u>Water:</u>	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.
• <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic:</u>	Not determined. Not determined.
<u>Solvent content:</u> <u>Organic solvents:</u>	60,2 %
Solids content: • Other information	39,5 % No further relevant information available.

10 Stability and reactivity

 Reactivity Chemical stability 	No further relevant information available.
<u>Thermal decomposition /</u> conditions to be avoided:	No decomposition if used according to enacifications
· Possibility of hazardous	No decomposition if used according to specifications.
reactions	No dangerous reactions known.
 Conditions to avoid 	No further relevant information available.
 Incompatible materials: 	No further relevant information available.
 Hazardous decomposition 	
products:	No dangerous decomposition products known.

11 Toxicological information

	on on toxicolog	gical effects				
· <u>Acute toxicity:</u>						
· LD/LC50 \	LD/LC50 values that are relevant for classification:					
ATE (Acu	ATE (Acute Toxicity Estimate)					
Oral	LD50	6,833 mg/kg (mouse)				
Inhalative	LC50/4 h	2,562 mg/l (rat)				
141-78-6	ethyl acetate					
Oral	LD50	4,100 mg/kg (mouse)				
		5,620 mg/kg (rat)				
		4,934 mg/kg (rbt)				
	NOAEL-Werte 900 mg/kg (rat)					
(Contd. on page 7)						

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Trade name:	Transformer	
		(Contd. of page 6)
Dermal	LD50	>18,000 mg/kg (rabbit)
Inhalative	LC50	58 mg/l (rat)
	LC50/4 h	1,600 mg/l (rat)
	LC50/1h	200 mg/l (rat)
	LC50/8h	5.86 mg/l (rat)
	LC50/48h	333 mg/l (Leuciscus idus)
 Primary iri 	ritant effect:	
 on the skir 	<u>n:</u>	No irritant effect.
 on the eye) :	Irritating effect.
 Sensitizati 	ion:	No sensitizing effects known.
 Additional 	toxicological	
informatio	<u>n:</u>	The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
· Carcinoge	enic categories	
· IARC (Inte	ernational Agen	cy for Research on Cancer)

IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
· NTP (National Toxicology Program)
None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

· Toxicity				
 Aquatic toxic 	ity:			
141-78-6 ethyl acetate				
EC10/18h	2,900 mg/l (pseudom	ionas putida)		
EC50/48h	610 mg/l (daphnia m	agna) (DIN 38412)		
	5,600 mg/l (Desmode	esmus subspicatus)		
IC50/48h	3,300 mg/l (Scenede	smus subspicatus)		
LC 0	29.3 mg/l (rat)			
NOELR/72h	>100 mg/l (Desmode	smus subspicatus)		
NOEC/21d	2.4 mg/l (daphnia ma	igna)		
EC10	2,900 mg/l (pseudom	nonas putida)		
EC50/48h	3,300 mg/l (Scenede	smus subspicatus)		
LC50/96h	230 mg/l (Oncorhync	hus mykiss)		
	230 mg/l (Pimephale			
· Persistence	and degradability	No further relevant information available.		
	environmental syste			
 Bioaccumula 	tive potential	No further relevant information available.		
• Mobility in soil No further relevant information available.				
· Additional ecological information:				
General notes: Water hazard class 2 (Self-assessment): hazardous for water				
 Results of F 	BT and vPvB assess	sment		
• <u>PBT:</u>		Not applicable.		
· <u>vPvB:</u>		Not applicable.		
Other adverse effects No further relevant information available.				
			(Contd. on page 8)	

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ade name: Transformer	
	(Contd. of pag
3 Disposal considerations	
Waste treatment methods Recommendation:	Must not be disposed of together with household garbage. Do not allow prod to reach sewage system.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1993
 • UN proper shipping name • DOT • ADR • IMDG, IATA 	Flammable liquids, n.o.s. (Ethyl acetate) 1993 Flammable liquids, n.o.s. (Ethyl acetate) FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)
· Transport hazard class(es)	
· DOT	
	3 Flammable liquids 3
· <u>Label</u> · ADR	ى
· <u>Class</u> · Label	3 (F1) Flammable liquids 3
· IMDG, IATA	,
· <u>Class</u> · <u>Label</u>	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	III
• Environmental hazards: • Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Warning: Flammable liquids 30 F-E, <u>S-E</u> A
Transport in bulk according to Al MARPOL73/78 and the IBC Code	nnex II of
Transport/Additional information	

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· <u>DOT</u>	
· Quantity limitations	On passenger aircraft/rail: 60 L
· Remarks:	On cargo aircraft only: 220 L to handle similar to packing group II
· <u>ADR</u>	
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
· Remarks:	Maximum net quantity per outer packaging: 1000 ml to handle similar to packing group II
· IMDG	
Limited quantities (LQ)	5L
 Excepted quantities (EQ) 	Code: E1
	Maximum net quantity per inner packaging: 30 ml
Domorkoj	Maximum net quantity per outer packaging: 1000 ml
• <u>Remarks:</u>	to handle similar to packing group II
• <u>IATA</u>	
· Remarks:	to handle similar to packing group II
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (ETHYL ACETATE), 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· <u>Sara</u>
Section 355 (extremely hazardous substances):
None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):
67-56-1 methanol
<u>TSCA (Toxic Substances Control Act):</u>
141-78-6 ethyl acetate
67-56-1 methanol
TSCA new (21st Century Act) (Substances not listed)
Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
Chemicals known to cause developmental toxicity:
67-56-1 methanol
Cancerogenity categories
EPA (Environmental Protection Agency)
None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
· MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
 NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
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Safety Data Sheet

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	he product is System (GHS).	(Contd. of page 9) classified and labeled according to the Globally Harmonized
Hazard pictograms	GHS02 GHS0	
	Varning	
Hazard-determining components of labeling: Hazard statements Hazard statements H Precautionary statements P: P	24 226 Flammabl 226 Flammabl 2319 Causes so 2336 May caus 2210 2261 2280 2302+P352 2304+P312	e liquid and vapor. erious eye irritation. e drowsiness or dizziness. Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid breathing vapours. Wear protective gloves / eye protection. If on skin: Wash with plenty of water. IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P	2305+P351+P3 2403+P235 2501	 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/ regional/national/international regulations.
National regulations:		
Information about limitation of use: E	Employment res	trictions concerning young persons must be observed.
• Water hazard class: W	Vater hazard cl	ass 2 (Self-assessment): hazardous for water.
	77.9 g/l / 4.82	b/gl ety Assessment has not been carried out.
16 Other information This information is based on our pres product features and shall not establis		e. However, this shall not constitute a guarantee for any specific id contractual relationship.
Contact: D E Fr @ Date of preparation / last revision Abbreviations and acronyms: Adbreviations and acronyms: Add IM	greement concern MDG: International	64296-59

IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ELINCS: European List of Notified Chemical Substances

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

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PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit	(Contd. of page 10)
Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 3: Acute toxicity – Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	116