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4 Identification		
1 Identification		
Product identifier Trade name:	Stain Repellent Nano Effect	
Article number: Article number: Relevant identified uses of the substance or mixture and uses advised against	No further relevant information available.	
Application of the substance / the	Dretective impresention	
mixture	Protective impregnation	
 Details of the supplier of the saf Manufacturer/Supplier: 	ety data sheet AKEMI chemisch technische Spezialfabrik GmbH Lechstrasse 28 D 90451 Nürnberg	Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de
 Information department: Emergency telephone number: 	Laboratory Product Safety Department AKEMI chemisch technis Tel. +49(0)911-64296-59 Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m. Friday from 07:30 a.m. to 13:30 p.m.	sche Spezialfabrik GmbH
2 Hazard(s) identification		
Classification of the substance	or mixture	
GHS08 Health hazard		
Asp. Tox. 1 H304 May be fatal if	swallowed and enters airways.	
H227 Combustible lic	IF SWALLOWED: Immediately call a POISON CENT IF INHALED: Remove victim to fresh air and k comfortable for breathing. IF ON SKIN (or hair): Remove/Take off immediately Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for severa lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attentio	xeep at rest in a position y all contaminated clothing. al minutes. Remove contact
· <u>Storage:</u>	Store in a well-ventilated place. Keep cool. Store locked up.	
Classification according to Directive	e 67/548/EEC or Directive 1999/45/EC	
🗙 Harmful		
Harmful: may cause lung damage	if swallowed.	
May cause long-term adverse eff cracking. Vapours may cause drov Information concerning particular hazards for human and	ects in the aquatic environment. Repeated exposure	
environment:	Contact with skin and inhalation of aerosols/ vapour be avoided. The product has to be labelled due to the calculation Classification guideline for preparations of the EU" in At long or repeated contact with skin it may ca degreasing effect of the solvent.	n procedure of the "General the latest valid version.
· Classification system:	Has a narcotizing effect. The classification was made according to the late substances lists, and expanded upon from company	

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Trade name: Stain Repellent Nano Effect		
	(Contd. of page 1)	
 Label elements GHS label elements Hazard pictograms 	The product is classified and labeled according to the Globally Harmonized System (GHS).	
	GHS08	
• <u>Signal word</u>	Danger	
Hazard-determining components of labeling:	Kohlenwasserstoffe, C11-C12, Isoalkane, <2% Aromaten Kohlenwasserstoffe, C11-C13, Isoalkane, <2% Aromaten Kohlenwasserstoffe, C11-C14, Isoalkane, Cycloalkane, <2% Aromaten. Naphtha (petroleum), hydrotreated heavy	
· Hazard statements	H227 Combustible liquid.	
 <u>Precautionary statements</u> <u>Precautionary statements</u> <u>Classification system:</u> <u>NFPA ratings (scale 0 - 4)</u> <u>HMIS-ratings (scale 0 - 4)</u> 	 H304 May be fatal if swallowed and enters airways. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P405 Store locked up. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Health = 0 Fire = 2 Reactivity = 0 HEALTH 0 Health = 0 Fire = 2 Reactivity = 0 	
· Other hazards	Reactivity = 0 The product does not contain any organic halogen compounds (AOX), nitrates,	
<u>Other hazards</u> <u>Results of PBT and vPvB assess</u> <u>PBT:</u> <u>vPvB:</u>	heavy metal compounds or formaldehydes.	
3 Composition/information on ing Chemical characterization: Mix Description: 	-	
<u>Dangerous components:</u>	(Contd. on page 3)	

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Trade name: Stain Repellent Nano Effect

	(Contd. of page 2)
EC number: 918-167-1	Kohlenwasserstoffe, C11-C12, Isoalkane, <2% Aromaten Xn R65 R53-66 & Asp. Tox. 1, H304; H227	25-50%
EC number: 920-901-0	Kohlenwasserstoffe, C11-C13, Isoalkane, <2% Aromaten Xn R65 R66 & Asp. Tox. 1, H304; H227	12.5-25%
EC number: 927-285-2	Kohlenwasserstoffe, C11-C14, Isoalkane, Cycloalkane, <2% Aromaten. Xn R65 R66 & Asp. Tox. 1, H304; H227	12.5-25%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate R10-66-67 � Flam. Liq. 3, H226; � STOT SE 3, H336	<12.5%
CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6	Naphtha (petroleum), hydrotreated heavy Xn R65 R10-66-67 � Asp. Tox. 1, H304; � STOT SE 3, H336; H227	<12.5%
Additional information:	For the wording of the listed risk phrases refer to section 16.	

4 First-aid measures

Description of first aid measures

Description of first aid measures	
 General information: 	Take affected persons out into the fresh air.
	Position and transport stably on side.
	Immediately remove any clothing soiled by the product.
 After inhalation: 	Supply fresh air; consult doctor in case of complaints.
After skin contact:	If skin irritation continues, consult a doctor.
	Immediately wash with water and soap and rinse thoroughly.
· After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
 After swallowing: 	A person vomiting while lying on their back should be turned onto their side.
Information for doctor:	Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g) a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.
	 b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis. Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intuktion endowed and another the time endowed of the medicinalis.
	intubation conduct of gastrolavage in application of Carbo medicinalis; in case of
	cramps administration of Diazepam 20 mg intravenously.
Most important symptoms and	
effects, both acute and delayed	Headache
	Dizziness
	Dizziness
	Nausea
	Gastric or intestinal disorders
_	Cramp
Danger	Danger of impaired breathing.
Indication of any immediate	
medical attention and special	
treatment needed	If swallowed or in case of vomiting, danger of entering the lungs.
	If swallowed, gastric irrigation with added, activated carbon.

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	Monitor circulation. (Contd. of page
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray alcohol resistant foam.
· Special hazards arising from the	
substance or mixture	Formation of toxic gases is possible during heating or in case of fire. In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Carbon monoxide (CO)
Advice for firefighters Protective equipment:	Wear self contained reprintery protective device
· Frotective equipment.	Wear self-contained respiatory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.
· Additional information	Dispose of fire debris and contaminated fire fighting water in accordance w official regulations.
	Collect contaminated fire fighting water separately. It must not enter the sewa system.
6 Accidental release measures	
· Personal precautions, protective	
equipment and emergency procedures	Ensure adequate ventilation
procedures	Use respiratory protective device against the effects of fumes/dust/aerosol.
	Keep away from ignition sources
Environmental precautions:	Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or seway system.
•• •• • • • • • •	Do not allow to enter sewers/ surface or ground water.
<u>Methods and material for</u> containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, univers
containment and cleaning up.	binders, sawdust).
	Dispose contaminated material as waste according to item 13.
Defense to other continue	Ensure adequate ventilation.
· <u>Reference to other sections</u>	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
7 Handling and storage	
· Handling:	
Precautions for safe handling	Keep receptacles tightly sealed.
	Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight.
	Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Highly volatile, flammable constituents are released during processing.
• Conditions for safe storage, incl	uding any incompatibilities
<u>Storage:</u> Requirements to be met by	
storerooms and receptacles:	Prevent any seepage into the ground.
	Provide solvent resistant, sealed floor.
	Store only in the original receptacle.
	(Contd. on page

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Trade name: Stain Repellent Nano B	ffect
	(Contd. of page 4)
 Information about storage in one common storage facility: 	Store away from oxidizing agents.
Further information about storage	Store away from foodstuffs.
conditions:	Store receptacle in a well ventilated area.
 Specific end use(s) 	No further relevant information available.
8 Exposure controls/personal pro	tection
 Additional information about design of technical systems: 	No further data; see item 7.
· Control parameters	
-	require monitoring at the workplace:
123-86-4 n-butyl acetate	450
PEL Long-term value: 710 mg/m ³	
REL Short-term value: 950 mg/m ³ Long-term value: 710 mg/m ³	
TLV Short-term value: 950 mg/m ³	
Long-term value: 713 mg/m ³	150 ppm
<u>Additional information:</u>	The lists that were valid during the creation were used as basis.
 Exposure controls Personal protective equipment: General protective and hygienic measures: Breathing equipment: Protection of hands: 	Do not eat or drink while working. Apply solvent resistant skin cream before beginning work. 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. Short term filter device: Filter AX 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 independent of circulating air. After use of gloves apply skin-cleaning agents and skin cosmetics. Preventive skin protection by use of skin-protecting agents is recommended. After each cleaning use treatment creams, for very dry skin greasy ointments. Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves: STOKODERM (http://www.stoko.com) Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves: Protective gloves
	STOKO EMULSION (http://www.stoko.com) Akemi skin protection recommendation for skin cleaning after product handling: FRAPANTOL (http://www.stoko.com) Akemi skin protection agent recommendation for skin aftercare: STOKO VITAN (http://www.stoko.com) 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 (Contd. on page 6)

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Trade name: Stain Repellent Nano Effect		
	(Contd. of page 5)	
	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, internet: http://www.kcl.de). 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	
 Material of gloves 	Nitrile rubber, NBR Fluorocarbon rubber (Viton) Butyl rubber, BR	
	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 prior to the application.	
 Penetration time of glove material 	Value for the permeation: Level \leq 1, 30 min 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:	Nitrile rubber, NBR Camatril (KCL, Art No. 730, 731, 732, 733) Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890) Butyl rubber, BR Butoject (KCL, Art No. 897, 898)	
 As protection from splashes gloves made of the following materials are 		
suitable:	Nitrile rubber, NBR Camatril (KCL, 730, 731, 732, 733)	
<u>Not suitable are gloves made of</u> the following materials:	Chloroprene rubber, CR Strong gloves Leather gloves	
Eye protection:	Natural rubber, NR Goggles recommended during refilling.	
Body protection:	Solvent resistant protective clothing	
9 Physical and chemical propertie	S	
Information on basic physical and chemical properties		

 Information on basic physical and chemical properties 	
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
· Odor:	Characteristic
· pH-value:	Not applicable
Change in condition	
Melting point/Melting range:	Not applicable

⁽Contd. on page 7) USA

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Trade name: Stain Repellent Nano Effect			
		(Contd. of page 6)	
Boiling point/Boiling range:	124 °C (255 °F)		
· Flash point:	62 °C (144 °F)		
· Flammability (solid, gaseous):	Not determined		
Ignition temperature:	240 °C (464 °F)		
<u>Auto igniting:</u>	Product is not selfigniting.		
· Danger of explosion:	Product does not present an explosion hazard.		
 Explosion limits: Lower: Upper: 	0.6 Vol % 10.4 Vol %		
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)		
 Density at 20 °C (68 °F): 	0.79 g/cm ³ (6.593 lbs/gal)		
· Specific gravity at 20 °C (68 °F):	0.79 g/cm ³ (6.593 lbs/gal)		
<u>Solubility in / Miscibility with</u> <u>Water:</u>	Not miscible or difficult to mix.		
• <u>Viscosity:</u> <u>Dynamic:</u> <u>Kinematic at 20 °C (68 °F):</u>	Not determined. 11 s (DIN 53211/4)		
<u>Solvent content:</u> <u>Organic solvents:</u> Other information	96.0 % No further relevant information available.		

10 Stability and reactivity

· Reactivity

Chemical stability

۰.	Chemical Stability
•	Thermal decomposition /

conditions to be avoided:

conditions to be avoided: • Possibility of hazardous	No decomposition if used and stored according to specifications.
reactions	Can form explosive mixtures in air if heated above flash point and/or when
	sprayed or atomized.
	Reacts with strong oxidizing agents

	Reacts with strong oxidizing agents.	
	Reacts with acids.	
	Forms flammable gases / fumes.	
 Conditions to avoid 	No further relevant information available.	
 Incompatible materials: 	No further relevant information available.	
 Hazardous decomposition 		
products:	Carbon monoxide and carbon dioxide	
	Hydrogen fluoride	

11 Toxicological information

Information on toxicological effects Acute toxicity:					
LD/LC50 values that are relevant for classification:					
64742-48-9 Naphtha (petroleum), hydrotreated heavy					
Oral	LD50	>5000 mg/kg (rat)			
Dermal	LD50	>3000 mg/kg (rabbit)			
Inhalative	LC50	>12 mg/l (rat)			
		(Contd.	on page 8)		

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5	21/2014		Reviewed on 01/21/20
ade name: St	ain Repellent Nano	Effect	
1 (C50/4h 4951 mg/m3	3 (rat)	(Contd. of page
Primary irrita	-		
• on the skin:		No irritant effect.	
\cdot on the eye:		No irritating effect.	
Sensitization:		No sensitizing effects known.	
 Additional to: 	kicological		
information:		The product shows the following dangers according calculation methods for preparations:	ording to internally approv
<u>Carcinogenic</u>	categories		
		esearch on Cancer)	
None of the i	ngredients is listed.		
· NTP (Nationa	al Toxicology Progra	<u>am)</u>	
None of the i	ngredients is listed.		
2 Ecological i	nformation		
2 Ecological i	normation		
Aquatic toxic	ity:		
		n), hydrotreated heavy	
EC50	> 1000 mg/l (green		
2	>1-<10 mg/l (bacter		
	> 1000 mg/l (daphn	,	
EL0/48h			
	1000 mg/l (daphnia magna)		
EL50/72h		okirchneriella subcapitata)	
LC50	> 1000 mg/l (piscis)		
LL50/96h	>1000 mg/l (Oncorh		
	51 mg/l (rainbow tro	,	
	- ·	irchneriella subcapitata)	
	and degradability	No further relevant information available.	
Other information		The product is difficultly biodegradable.	
Benavior in Bioaccumula	environmental syst	tems: No further relevant information available.	
Mobility in so		No further relevant information available.	
	cological informati		
 General note 		Do not allow product to reach ground water, water Water hazard class 1 (Self-assessment): slightly h	
· Results of P	BT and vPvB asse		
· PBT:		Not applicable.	
· VPvB:		Not applicable.	
· Other adver	se effects	No further relevant information available.	
3 Disposal co	nsiderations		
-			
Waste treatment methods Recommendation:		Must not be disposed of together with household	garbage. Do not allow produ
 Recommend 		to reach sewage system.	
· <u>Recommend</u>			
<u>Recommend</u> Uncleaned p	ackagings:	Empty contaminated packagings thoroughly. Th	
			They can be recycled aft
· Uncleaned p		Empty contaminated packagings thoroughly. thorough and proper cleaning.	They can be recycled aft (Contd. on page

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ade name: Stain Repellent Nano Effect	
Recommended cleansing agent: Alcoh	nol (Contd. of page
Transport information	
· <u>UN-Number</u> · DOT, ADR, ADN, IMDG, IATA	Void
• UN proper shipping name • DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· <u>DOT, ADR, ADN, IMDG, IATA</u> · <u>Class</u>	Void
• Packing group • DOT, ADR, IMDG, IATA	Void
 Environmental hazards: Marine pollutant: 	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
• UN "Model Regulation":	
Regulatory information	-
Regulatory information	lations/legislation specific for the substance or mixture
 Regulatory information Safety, health and environmental regu Sara Section 355 (extremely hazardous substated) 	
• Safety, health and environmental regu	
 Regulatory information Safety, health and environmental regu Sara Section 355 (extremely hazardous substated) 	ances):
• Safety, health and environmental regu • Sara • Section 355 (extremely hazardous substation None of the ingredient is listed.	ances):
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 Safety, health and environmental regulatory information Safety, health and environmental regulation Sara Section 355 (extremely hazardous substated) None of the ingredient is listed. Section 313 (Specific toxic chemical listing) None of the ingredients is listed. TSCA (Toxic Substances Control Act): 123-86-4 n-butyl acetate 	ances): ngs):
Regulatory information Safety, health and environmental regu Sara Section 355 (extremely hazardous substa None of the ingredient is listed. Section 313 (Specific toxic chemical listin None of the ingredients is listed. TSCA (Toxic Substances Control Act): 123-86-4 n-butyl acetate 64742-48-9 Naphtha (petroleum), hydrotemetee	ances): ngs):
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 Safety, health and environmental regu Sara Section 355 (extremely hazardous substa None of the ingredient is listed. Section 313 (Specific toxic chemical listin None of the ingredients is listed. Section 313 (Specific toxic chemical listin None of the ingredients is listed. TSCA (Toxic Substances Control Act): 123-86-4 n-butyl acetate 64742-48-9 Naphtha (petroleum), hydrot Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive to None of the ingredients is listed. Chemicals known to cause reproductive to None of the ingredients is listed. 	ances): ags): ireated heavy toxicity for females: toxicity for males:
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Trade name: Stain Repellent Nano E	Trade name: Stain Repellent Nano Effect				
	(Contd. of page 9)				
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 O	ccupational Safety and Health)				
None of the ingredients is listed.					
OSHA-Ca (Occupational Safety &	Health Administration)				
None of the ingredients is listed.					
GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).				
Hazard pictograms					
	GHS08				
 Signal word 	Danger				
· Hazard-determining components					
of labeling:	Kohlenwasserstoffe, C11-C12, Isoalkane, <2% Aromaten Kohlenwasserstoffe, C11-C13, Isoalkane, <2% Aromaten Kohlenwasserstoffe, C11-C14, Isoalkane, Cycloalkane, <2% Aromaten. Naphtha (petroleum), hydrotreated heavy				
· Hazard statements	H227 Combustible liquid. H304 May be fatal if swallowed and enters airways.				
Precautionary statements	P101 If medical advice is needed, have product container or label at hand.				
	P102 Keep out of reach of children.				
	P103 Read label before use.P260 Do not breathe mist/vapours/spray.				
	P280 Wear protective gloves.				
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/				
	physician. P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.				
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.				
	P405 Store locked up.				
	 P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/ national/international regulations. 				
National regulations:					
Information about limitation of use:	Employment restrictions concerning young persons must be observed. Employment restrictions concerning pregnant and lactating women must be observed.				
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.				
 VOC USA Chemical safety assessment: 	753.9 g/l / 6.29 lb/gl A Chemical Safety Assessment has not been carried out.				
16 Other information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific					

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS:

Laboratory Dieter Zimmermann · Contact: Date of preparation / last revision 01/21/2014 / -

Printing date 01/21/2014

Reviewed on 01/21/2014

Trade name: Stain Repellent Nano Effect

• <u>Abbreviations and acronyms:</u>	(Contd. of page 10) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization 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 DOT: US Department of Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
International Product Registration	
Status	USA (Toxic Substances Control Act, TSCA) J (Existing and New Chemical Substance List, ENCS)
	USA —

