

SUBID : 000001011961 Print Date 04.01.2016

Version 1 Revision Date 04.06.2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or mixture:

Product name	:	THD200
REACH Registration No	:	Registration numbers of the individual components: see section 3.2, if applicable.

1.2 Use of the substance/mixture:

Identified relevant uses Uses advised against	Offset plate developer solution Do not use for products which come into direct contact with food stuffs. Do not use for products which come into direct contact with the skin. Do not use for private purposes (household).

1.3 Company/undertaking identification

Agfa-Gevaert Ltd. Vantage West Great West Road Brentford, Middlesex TW8 9AX United Kingdom Tel. : +44 (0)20 8 231 4616 Fax : +44 (0)20 8 231 4951 E-mail: electronic.sds@agfa.com

1.4 Emergency telephone

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation(EC) No 1272/2008 (CL	P)
Hazard classes	Skin irritation
Hazard categories	Category 2
Hazard statements	H315
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.
 Hazard classes 	Serious eye damage
Hazard categories	Category 1
Hazard statements	H318
Classification procedure	According the classification criteria of CLP Regulation (EC) No 1272/2008.

67/548/EEC or 1999/45/EC

0//340/EEC 01 1999/43/EC	
Hazards characteristics	Irritant
R-phrase(s)	R36/38

Full text of each relevant R and H phrase is listed in section 16.

2.2 Label elements:

Hazardous components which must be listed on the label :

CAS-No. : 6834-92-0 Disodium metasilicate

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Symbol(s)			
GHS05			
Signal word Hazard statements	:	DANGER H318	Causes serious eye damage.
		H315	Causes skin irritation.
Precautionary statements: prevention	:	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements: response	:	P305+P351+P 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
leaponae		P310	Immediately call a POISON CENTER/doctor/#

2.3 Other hazards:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture related information:

Aqueous offset plate developer solution, mainly consisting of:

3.2 Hazard ingredients:

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1.

Hazardous components in the meaning of regulation(EC) No 1272/2008 (CLP)

•	Disodium metasilicate CAS-No. Index-No. EINECS-No. REACH Registration No Hazard classes	::	Concentration [%] : 3.0 - 5.0 6834-92-0 014-010-00-8 229-912-9 01-2119449811-37-XXXX Corrosive to metals., Skin corrosion, Serious eye damage,
	Hazalu Classes		Specific target organ toxicity - single exposure
	Hazard categories		Category 1, Category 1B, Category 1, Category 3
	Hazard statements		H290, H314, H318, H335
•	Sodium octanoate		Concentration [%] : 1.0 - 5.0
	CAS-No.	1	1984-06-1
	EINECS-No.	1	217-850-5
	REACH Registration No	:	Transition time according to REACH regulation article 23 is still not expired.
	Hazard classes	:	Serious eye irritation, Skin irritation, Specific target organ toxicity - single exposure
	Hazard categories	1	Category 2, Category 2, Category 3
	Hazard statements	:	H319, H315, H335



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Hazardous components in the	e meaning of 67/54	8/EEC or 1999/45/EC			
Disodium metasilicate		Concentration [%] :	1.0	-	5.0
CAS-No.	: 6834-92-0				
Index-No.	: 014-010-00-8				
EINECS-No.	: 229-912-9				
Symbol(s)	: C				
R-phrase(s)	: R34, R37				
Sodium octanoate		Concentration [%] :	1.0	-	5.0
CAS-No.	: 1984-06-1				
EINECS-No.	: 217-850-5				
Symbol(s) R-phrase(s)	: Xi : R36/37/38				
Components with a communi		sure limit			
-					
This product does not contain co	mponents with a cor	nmunity exposure limit.			
3.3 Remark:					
Full text of each relevant R an	nd H phrase is listed	in section 16.			
4. FIRST AID MEASURES					
4.1 Description of first aid me	easures:				
Eye contact	: Rinse thorough and consult a p	nly with plenty of water for at hysician.	least 18	5 minu	utes
Skin contact	: Wash immedia persist, seek m	tely with plenty of water and redical advice.	soap. I	fsymp	otoms
Ingestion		ith plenty of water. Seek me			
Inhalation	: Take person to	fresh air. If necessary, seel	< medica	al advi	ice.
4.2 Most important symptoms	s and effects:				
Symptoms	: Causes skin irr	itation. Risk of serious dama	age to e	yes.	
4.3 Indication of immediate m	nedical attention an	d special treatment neede	d:		
General advice	: Call a physicial	n immediately.			
5. FIRE-FIGHTING MEASURES					
5.1 Extinguishing media					
Suitable extinguishing media	: Dry extinguishir dioxide (CO2).,	ng powder., Alcohol-resistan Water.	it foam.,	Carbo	on
5.2 Special hazards arising fr	om the substance	or mixture:			
Specific hazards during fire	: Cool closed cor	ntainers exposed to fire with	water s	prav.	Do not
fighting Further information	use a solid wate : Product is not c	er stream as it may scatter a combustible.Collect contamin ater separately. This must n	and spre	ad fire e	Э.
5.3 Advice for fire-fighters:					

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Special protective equipment for fire-fighters	: Regular fire intervention clothes.
ACCIDENTAL RELEASE MEA	SURES
6.1 Personal precautions, pro	ptective equipment and emergency procedures:
Personal precautions	: See section : Exposure controls / personel protection. Cleanup personnel must use appropriate personal protective equipment.
Additional advice	: Observe normal precautions when handling chemicals.
6.2 Environmental precaution	IS:
Environmental precautions	: For waste disposal see section 13. The product should not be allowed to enter drains, water courses or the soil.
6.3 Methods and material for	containment and cleaning up:
Methods for cleaning up	: Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
6.4 Reference to other section	ns:
6.4 Reference to other section For waste disposal see section For personal protection see se	n 13.
For waste disposal see sectio	n 13. ection 8.
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE	Iling: : Handle in accordance with good industrial hygiene and safety
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE 7.1 Precautions for safe hand	 Iling: Handle in accordance with good industrial hygiene and safety practice.Prevent product from diffusing. Observe normal precautions when handling chemicals.Keep away from foodstuffs, drinks and tobacco.Emergency showers and eye wash stations should be available.Employees should wash their hands and face before eating, drinking, or using
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE 7.1 Precautions for safe hand Advice on safe handling	 Iling: Handle in accordance with good industrial hygiene and safety practice.Prevent product from diffusing. Observe normal precautions when handling chemicals.Keep away from foodstuffs, drinks and tobacco.Emergency showers and eye wash stations should be available.Employees should
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE 7.1 Precautions for safe hand Advice on safe handling Hygiene measures Advice on protection against	 Iling: Handle in accordance with good industrial hygiene and safety practice. Prevent product from diffusing. Observe normal precautions when handling chemicals.Keep away from foodstuffs, drinks and tobacco.Emergency showers and eye wash stations should be available.Employees should wash their hands and face before eating, drinking, or using tobacco products. No special protective measures against fire and explosion required.
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE 7.1 Precautions for safe hand Advice on safe handling Hygiene measures Advice on protection against fire and explosion	 In 13. ection 8. Iling: Handle in accordance with good industrial hygiene and safety practice.Prevent product from diffusing. Observe normal precautions when handling chemicals.Keep away from foodstuffs, drinks and tobacco.Emergency showers and eye wash stations should be available.Employees should wash their hands and face before eating, drinking, or using tobacco products. No special protective measures against fire and explosion required. ge: Keep container tightly closed. Protect from direct sunlight.Protect against light.Store in cool place.
For waste disposal see sectio For personal protection see se HANDLING AND STORAGE 7.1 Precautions for safe hand Advice on safe handling Hygiene measures Advice on protection against fire and explosion 7.2 Conditions for safe storage areas and containers Further information on storage conditions	 In 13. ection 8. Iling: Handle in accordance with good industrial hygiene and safety practice.Prevent product from diffusing. Observe normal precautions when handling chemicals.Keep away from foodstuffs, drinks and tobacco.Emergency showers and eye wash stations should be available.Employees should wash their hands and face before eating, drinking, or using tobacco products. No special protective measures against fire and explosion required. ge: Keep container tightly closed. Protect from direct sunlight.Protect against light.Store in cool place. Store in a cool area.Store in a dry area.Keep container in a well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:



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8.1.1 Components with occupational exposure limits rsp. biological occupational exposure limits requiring monitoring:

8.1.1.1 Occupational exposure limits:

Air limit values

We are not aware of any national exposure limit.

Biological limit values

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use:

No other exposure limits applicable.

8.1.1.3 DNEL/DMEL and PNEC-values:

DNEL

No Chemical Safety Report performed. No DNEL/DMEL value determined.

PNEC

No Chemical Safety Report performed. No PNEC value determined.

8.2 Exposure controls:

Occupational exposure controls:

> Instruction measures to prevent exposure:

Employees should wash their hands and face before eating, drinking, or using tobacco products. Keep away from foodstuffs, drinks and tobacco.

> Technical measures to prevent exposure:

Ensure adequate ventilation.

> Personal measures to prevent exposure:

Hand protection	Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness >= 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness >= 0.38 mm, breakthrough time > 480 min) or neoprene (thickness >= 0.65 mm, breakthrough time > 240 min). For intermittent splash protection corresponding gloves with breakthrough times > 60 min can be used. Avoid gloves made of: natural latex.
Eye protection Body Protection	Safety goggles. EN 166. Safety clothes.
y	
Personal protective equipment	Prevent product from diffusing. Observe normal precautions when handling chemicals.

Environmental exposure controls:

Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material. Do not release into drain. Collect for removal by a licensed waste contractor.

EU Directive	Status
European Directive 2000/60/EC (water)	not on list
European Directive 1996/62/EC (air)	not on list



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PHYSICAL AND CHEMICAL	PROPERTIES	
9.1 Basic physical and cher	nical properties:	
9.1.1 Appearance:		
State of matter	: Liquid	
Form	: Liquid.	
Color	: Colourless.	
Odor Odor threshold	: Odourless.	
Odor threshold	: No data available	
9.1.2 Important health, safet	ty and environmental information	:
рН (25 °С)	: >13	Method: Literature.
Melting point/range	: <0 °C	Method: Literature.
Boiling point/range	: > 100 °C	Method: Literature.
Flash point	: > 93.33 °C	Method: Literature.
Autoionition to an ereture	Not combustible.	
Autoignition temperature	: Not applicable : No data available	
Vapour pressure Relative vapour density		
Relative density (20 °C)		Method: Literature.
Solubility/qualitative	: Miscible with water at all ratio	
Partition coefficient (n-		55.
octanol/water)		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Evaporation rate	: Almost no evaporation (20°C	;).
Flammability (solid, gas)	: Not applicable	
9.2 Other information:		
VOC content	: Not applicable	
STABILITY AND REACTIVI	ГҮ	
10.1 Reactivity:		
Reactivity	: Reacts with acids.	
10.2 Chemical stability:		
Stability	: The product is stable under n use.	ormal conditions of storage and
10.3 Possibility of hazardou	is reactions:	
Hazardous reactions	: Reacts with strong acids.	
10.4 Conditions to avoid:		
Conditions to avoid	: Avoid contact with strong acid	ds. Remove all chemicals and
		oroughly with water before using

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10.5 Materials to avoid:

Materials to avoid : Reacts with strong acids.

10.6 Hazardous decomposition products:

Hazardous decomposition : No specified dangerous decomposition products are known. products

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Toxicokinetics, metabolism and distribution:

Acute effects (toxicity tests):

Acute Toxicity

• Disodium metasilicate

Effect dose	Species	Value	Method
LD50	rat	1,152 to 1,349	Literature.
		mg/kg	
LD50	rat	> 5,000 mg/kg	Literature.
Based on av	ailable data,	the classification criteria	are not met.
LC50	rat	> 2.06 mg/l	Literature.
	LD50 LD50 Based on av	LD50 rat LD50 rat Based on available data,	LD50rat1,152 to 1,349 mg/kgLD50rat> 5,000 mg/kgBased on available data, the classification criteria

Sodium octanoate •

	Effect dose	Species	Value	Method
Acute oral toxicity				
	No data availa	ble		
Acute dermal toxicity				
	No data availa	ble		
Acute inhalation toxicity				
	No data availa	ble		

> Specific target organ toxicity (STOT):

 Disodium metasilicate 	
Specific effects	Affected organs

Irritating to respiratory system.

- Sodium octanoate
- Specific effects

No data available

> Irritant and corrosive effects:

	Exposure time	Species	Evaluation	Method	
Primary irritation to the skin		rabbit	Irritating to skin.	OECD Test Guideline 404	
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Affected organs



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Irritation to eyes	rabbit	Risk of serious damage to eyes.	OECD Test Guideline 405
Irritation to the respirate	ory tract:		
Disodium metasilicate			
May cause irritation of respira	atory tract.		
Sodium octanoate			
No data available			
Sensitisation:			
Disodium metasilicate			
Species	Evaluation Did not cause sensitization	Method on on Literatur	0
	laboratory animals.		с.
Sodium octanoate			
Species	Evaluation	Method	
	No data available		
> Aspiration hazard:			
-			
• Disodium metasilicate Based on available data, the	classification criteria are n	at met	
 Sodium octanoate 		Ji mei.	
No data available			
Sub-acute, sub-chronic an	d chronic toxicity		
Repeated dose toxicity:			
Disodium metasilicate			
Irritating to respiratory system	n.		
Sodium octanoate			
No data available			
Specific target organ to	xicity (STOT):		
No information available.			
CMR effects (carcinoge	nity, mutagenicity and to	xicity for reproduction	on):
- Carcinogenicity			
Disodium metasilicate			

Based on available data, the classification criteria are not met.

Sodium octanoate

No carcinogenic effects observed at the doses tested.

- Mutagenicity

• Disodium metasilicate



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There is no evidence for mutagenicity from studies in animals.

• Sodium octanoate

There is no evidence for mutagenicity from studies in animals.

- Genetic toxicity in vitro

Disodium metasilicate

Туре	Test system	Concentration Result
	Method: Literature. Based on available data, the cla	assification criteria are not met.

Sodium octanoate •

No data available

- Genetic toxicity in vivo

• Disodium metasilicate

Route of exposure	Species	Exposure time	Result
	Method: Literature. Based on available data, the c	lassification criteria	are not met.

• Sodium octanoate

No data available

- Teratogenicity

No data available

- Toxicity to reproduction

• Disodium metasilicate

Douto of experience	Chaoling	Eveneouro timo
Route of exposure	Species	Exposure time
	rat	
	Method: Literature.	
	Based on available of	lata, the classification criteria are not met.
	mouse	
	Method: Literature.	
	Based on available of	lata, the classification criteria are not met.

Sodium octanoate •

No data available

> Summarised evaluation of the CMR properties:

 Disodium metasilicate 		
Carcinogenicity	Based on available data, the classification criteria are not me	et.
Mutagenicity	Based on available data, the classification criteria are not me	et.
Teratogenicity	Based on available data, the classification criteria are not me	et.
Toxicity to reproduction	No data available	
Sodium octanoate		
Carcinogenicity	Animal testing did not show any carcinogenic effects.	
Mutagenicity	Did not show mutagenic effects in animal experiments.	
Teratogenicity	No data available	
Toxicity to reproduction	No data available	



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Experiences made in practice:

There is no data available for this product.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

• Disodium metasilicate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Brachidanio rerio (zebra fish)	210 mg/l
-	Method:	Literature.		-
	Based o	n available d	lata, the classification criteria are not met.	
Toxicity to daphnia	EC50	48 h	Daphnia magna	1,700 mg/l
	Method:	Literature.		-
	Based o	n available d	lata, the classification criteria are not met.	
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus (algae)	207 mg/l
	Method:	Literature.		
	Based o	n available d	lata, the classification criteria are not met.	
Toxicity to bacteria				
-	No data	available		

Sodium octanoate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish				
-	No data	available		
Toxicity to daphnia				
	No data	available		
Toxicity to algae				
	No data	available		
Toxicity to bacteria				
, , , , , , , , , , , , , , , , , , ,	No data	available		

12.2 Persistence and degradability:

Physico-chemical removability

Neutralization is normally necessary before waste water is discharged into water treatment plants.

Chemical Oxygen Demand (COD)

No data available

Adsorbed organic bound halogens (AOX)

• Disodium metasilicate

Product does not contain any organic halogens.

• Sodium octanoate

Product does not contain any organic halogens.

Biodegradation

The methods for determining the biological degradability are not applicable to inorganic substances.



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Biochemical Oxygen Demand (BOD)

No data available

12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

No data available

Bioconcentration factor (BCF)

Bioaccumulation is unlikely.

12.4 Mobility in soil:

Soluble in water.

Henry's constant

Value	Temperature	Method
		No information available.

Transport between environmental compartments

Transport between environmental compartments can be expected.

12.5 Results of PBT and vPvB assessment:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

12.6 Other adverse effects:

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste disposal methods

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material.

May be discharged to drain if local regulations permit.

Empty containers.

As the packaging can be contaminated with product residus, please observe the warnings of the label even when the container is empty.Do not reuse empty container without proper cleaning.Label precautions also apply to this container when empty.

For waste resulting from the expired product, it is recommended to use European Waste Code : 09 01 02 (water-based offset plate developer solutions).



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14. TRANSPORT INFORMATION

Not regulated according to ADR. Not regulated according to ADNR. Not regulated according to RID. Not regulated according to IMO/IMDG. Not regulated according to ICAO/IATA aircraft only. Not regulated according to ICAO/IATA passenger and cargo aircraft.

15. REGULATORY INFORMATION

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

Authorisation and/or restriction on use

Authorisation Restriction on use	 No Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures & articles (Reg 1907/2006/EC, as amended
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Other EU regulations

Does not fall under specific EU-Regulations.

15.2 Chemical Safety Assessment

No Chemical Safety Report needed according REACH.

16. OTHER INFORMATION

Text of H-phrases referred to under headings 2 and 3:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Text of R-phrases referred to under headings 2 and 3:

R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.

Further information

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.



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The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.

Sources of key data used to compile the datasheet

Handbuch der gefährlichen Güter, Hommel.

The Dictionary of Substances and their Effects, Royal Society of Chemistry.

Gefährliche Chemische Reaktionen, L.Roth und U.Weller.

Handbuch der Umweltgifte, Dauderer.

Chemiekaarten, latest version.

Safety Data Sheet from the supplier. This safety data sheet contains an ES (if applicable) in an integrated form.

Contents of the exposure scenario have been included (if applicable) into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet. The downstream user has to check whether his uses are covered by the integrated ES information in this safety data sheet.

Abbreviations

ADR:	Accord européen relatif au transport international des marchandises
	Dangereuses par Route
ADNR:	Accord européen relatif au transport international des marchandises
	Dangereuses par la Rhin
AGW:	Arbeitsplatzgrenswerte (GE)
ATEmix:	Acute toxicity estimate of the mixture
CLP:	Classification, Labelling and Packaging of substances and mixtures
CMR:	Carcinoge
DNEL:	Derived No Effect Level
EC0:	Effective Concentration 0%
EC5:	Effective Concentration 5%
EC10:	Effective Concentration 10%
EC50:	Median Effective Concentration
EC100:	Effective Concentration 100%
EH40 WEL:	Workplace Exposure Limit (UK)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IC50:	inhibitory concentration 50%
IMDG:	International Maritime Dangerous Goods
IMO:	International Maritime Organization
IUCLID:	International Uniform ChemicaL Information Database
LC50:	Lethal Concentration 50%
LC100:	Lethal Concentration 100%
LOAEL:	Lowest Observed Adverse Effect Level
LDL0	Lethal Dose (minimum found to be lethal)
LD50:	Lethal Dose 50%
MAC:	Maximaal Aanvaardbare Concentratie (NL)
MAK:	Maximale Arbeitsplatz-Konzentration
NOAEL:	No Observed Adverse Effect Level
NOEL:	No Observed Effect Level
NOEC:	No Observed Effect Concentration
OEL:	Occupatianal Exposure Limit
PBT:	Persistent, Bioaccumulative and Toxic substance



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PNEC:	Predicted No Effect Concentration
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulations concerning the International Transport of Dangerous Goods by
	Rail
STEL:	Short Term Exposure Limit
TLV:	Treshold Limit Value
TRGS900:	Arbeitsplatzgrenswerte (GE)
TWA:	Time Weighted Average
VOC:	Volatile Organic Compound
vPvB:	very Persistent and very Bioaccumulative substance