



# 2.1 VOC Slow Universal Activator 7593

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 25/02/2015

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Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : 2.1 VOC Slow Universal Activator 7593  
Product group : 2K Hardener

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only  
Function or use category : Hardener (Crosslinker)

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

HIGH TECK PRODUCTS  
PO BOX 24631  
WEST PALM BEACH, FLORIDA  
33416 - USA  
T 877-900-8325  
[info@nationaloak.com](mailto:info@nationaloak.com)

#### 1.4. Emergency telephone number

Emergency number : (800) 424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225  
Acute Tox. 4 (Inhalation) H332  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Skin Sens. 1 H317  
STOT SE 3 H335  
STOT SE 3 H336

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11  
Xn; R20  
Xi; R36/37/38  
R43  
R52

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) : Danger

Hazardous ingredients : 4-CHLORO BENZOTRIFLUORIDE, methyl acetate, hexamethylene-di-isocyanate, n-butyl

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	acetate, Solvent naphtha (petroleum), light arom., HEXAMETHYLENE DIISOCYANATE OLIGOMERS
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P261 - Avoid breathing spray, vapours P280 - Wear face protection, protective clothing, protective gloves P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH phrases	: EUH204 - Contains isocyanates. May produce an allergic reaction
No labelling applicable	

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
4-CHLORO BENZOTRIFLUORIDE	(CAS No) 98-56-6	23 - 43	Xi; R36/37/38 R10 R52
HEXAMETHYLENE DIISOCYANATE OLIGOMERS	(CAS No) 28182-81-2 (EC no) 500-060-2	< 43	Xn; R20 Xi; R37 R43
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	F; R11 Xi; R36 R66 R67
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	< 5	R10 R66 R67
Solvent naphtha (petroleum), light arom.,	(EC no) 918-668-5	< 5	Xi; R37 R10 Xn; R65 R66 R67 N; R51/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-CHLORO BENZOTRIFLUORIDE	(CAS No) 98-56-6	23 - 43	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
HEXAMETHYLENE DIISOCYANATE OLIGOMERS	(CAS No) 28182-81-2 (EC no) 500-060-2	< 43	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
methyl acetate	(CAS No) 79-20-9 (EC no) 201-185-2 (EC index no) 607-021-00-X	5 - 23	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS No) 123-86-4 (EC no) 204-658-1 (EC index no) 607-025-00-1	< 5	Flam. Liq. 3, H226 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent naphtha (petroleum), light arom.,	(EC no) 918-668-5	< 5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of R- and H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
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##### 6.1.1. For non-emergency personnel

Protective equipment	: Safety glasses. Protective clothing. Gloves.
Emergency procedures	: Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing spray, vapours.
Emergency procedures	: Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Contain leaking substance. Collect spillage.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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### 6.4. Reference to other sections

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Avoid breathing spray, vapours. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, Lighting equipment equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Ignition sources, Heat sources, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in fireproof place. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Storage temperature	: < 25 °C
Storage area	: Keep container in a well-ventilated place.
Special rules on packaging	: Keep only in original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

methyl acetate (79-20-9)		
Austria	Local name	Methylacetat
Austria	MAK (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	1220 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	400 ppm
Belgium	Local name	Acétate de méthyle
Belgium	Limit value (mg/m <sup>3</sup> )	615 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	768 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	250 ppm
Croatia	Local name	Metil-acetat
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	770 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	250 ppm
Croatia	Naznake (HR)	F, Xi
Czech Republic	Local name	Methylacetát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	200 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	800 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	260 ppm
Denmark	Local name	Methylacetat (1994)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	455 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Estonia	Local name	Metüületsetaat (metüületanaat)
Estonia	OEL TWA (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>

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methyl acetate (79-20-9)		
Estonia	OEL TWA (ppm)	150 ppm
Estonia	OEL STEL (ppm)	900 ppm
Finland	Local name	Metyyliasettaatti
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	770 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	250 ppm
France	Local name	Acétate de méthyle
France	VME (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
France	VME (ppm)	200 ppm
France	VLE (mg/m <sup>3</sup> )	760 mg/m <sup>3</sup>
France	VLE (ppm)	250 ppm
Germany	Local name	Methylacetat
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG,Y
Greece	OEL TWA (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	760 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	250 ppm
Hungary	Local name	METIL-ACETÁT
Hungary	AK-érték	610 mg/m <sup>3</sup>
Hungary	CK-érték	2440 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, sz, i; l.
Ireland	Local name	Methyl acetate
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	760 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	250 ppm
Latvia	Local name	Metilacetāts (etiķskābesmetilesteris)
Latvia	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Lithuania	Local name	Metilacetatas
Lithuania	IPRV (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	300 ppm
Poland	Local name	Octan metylu
Poland	NDS (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Portugal	Local name	Acetato de metilo
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	250 ppm
Romania	Local name	Acetat de metil
Romania	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	63 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	188 ppm
Slovenia	Local name	metilacetat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	2440 mg/m <sup>3</sup>

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<b>methyl acetate (79-20-9)</b>		
Slovenia	OEL STEL (ppm)	800 ppm
Sweden	Local name	Methyl acetate
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	Local name	Methyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	616 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	770 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	250 ppm
Iceland	Local name	Metýlasetat
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	455 mg/m <sup>3</sup>
Iceland	OEL (8 hours ref) (ppm)	150 ppm
Norway	Local name	Metylacetat
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	305 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	100 ppm
Switzerland	Local name	Acétate de méthyle
Switzerland	VME (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	1240 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	400 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	Methyl acetate
Australia	TWA (mg/m <sup>3</sup> )	606 mg/m <sup>3</sup>
Australia	TWA (ppm)	200 ppm
Australia	STEL (mg/m <sup>3</sup> )	757 mg/m <sup>3</sup>
Australia	STEL (ppm)	250 ppm
USA - ACGIH	Local name	Methyl acetate
USA - ACGIH	ACGIH TWA (ppm)	200 ppm
USA - ACGIH	ACGIH STEL (ppm)	250 ppm
USA - ACGIH	Remark (ACGIH)	eye & URT irr
USA - OSHA	Local name	Methyl acetate
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	610 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm
<b>4-CHLORO BENZOTRIFLUORIDE (98-56-6)</b>		
Lithuania	Local name	p-chlorbenztrifluoridas
Lithuania	IPRV (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Lithuania	Remark (LT)	O
<b>n-butyl acetate (123-86-4)</b>		
Belgium	Local name	Acétate de n-butyle
Belgium	Limit value (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	150 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	964 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	200 ppm
Bulgaria	Local name	n-Бутилацетат
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Croatia	Local name	n-Butil-acetat
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	200 ppm

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<b>n-butyl acetate (123-86-4)</b>		
Czech Republic	Local name	Butylacetát
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	200.5 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	253 ppm
Denmark	Local name	Butylacetat, alle isomere
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	Local name	n-Butyliasetaatti
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
France	Local name	Acétate de n-butyle
France	VME (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
France	VME (ppm)	150 ppm
France	VLE (mg/m <sup>3</sup> )	940 mg/m <sup>3</sup>
France	VLE (ppm)	200 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	150 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	200 ppm
Hungary	Local name	n-BUTIL-ACETÁT
Hungary	AK-érték	950 mg/m <sup>3</sup>
Hungary	CK-érték	950 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	i, sz; l.
Ireland	Local name	Butyl acetate
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	200 ppm
Latvia	Local name	Etiķskābesbutilesteris (n-butilacetāts)
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	Local name	Octan butylu (n-butylu octan)
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Portugal	Local name	Acetato de n-butilo
Portugal	OEL TWA (ppm)	150 ppm
Portugal	OEL STEL (ppm)	200 ppm
Romania	Local name	Acetat de butil
Romania	OEL TWA (mg/m <sup>3</sup> )	715 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	150 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	200 ppm
Slovenia	Local name	n-butilacetat
Slovenia	OEL TWA (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	100 ppm
Sweden	Local name	Butyl acetate n-Butyl
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>

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n-butyl acetate (123-86-4)		
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
United Kingdom	Local name	Butyl acetate
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm
Iceland	Local name	Bútýlasetat, allir ísómerar (ísóbútýlasetat)
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Iceland	OEL (8 hours ref) (ppm)	150 ppm
Switzerland	Local name	1-Butylacétate
Switzerland	VME (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
Australia	Local name	n-Butyl acetate
Australia	TWA (mg/m <sup>3</sup> )	713 mg/m <sup>3</sup>
Australia	TWA (ppm)	150 ppm
Australia	STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Australia	STEL (ppm)	200 ppm
USA - ACGIH	Local name	n-Butyl acetate
USA - ACGIH	ACGIH TWA (ppm)	150 ppm
USA - ACGIH	ACGIH STEL (ppm)	200 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
USA - OSHA	Local name	n-Butyl-acetate
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	150 ppm

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: Impermeable clothing
Hand protection	: Wear protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Air-fed respiratory protective equipment should be worn when this product is sprayed. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: aromatic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: < 0 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour



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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.15 - 1.17 g/cm <sup>3</sup>
Solubility	: insoluble in water. soluble in most organic solvents.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 762 g/l
VOC content - Actual	: 55 g/l
VOC content - Regulatory	: 123 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11.000 mg/l/4h
ATE CLP (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

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### 12.2. Persistence and degradability

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Persistence and degradability : Not established.

#### Solvent naphtha (petroleum), light arom.,

Persistence and degradability : May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

#### Solvent naphtha (petroleum), light arom.,

Bioaccumulative potential : Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1263  
UN-No. (IMDG) : 1263  
UN-No. (IATA) : 1263  
UN-No. (ADN) : 1263  
UN-No. (RID) : 1263

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT RELATED MATERIAL  
Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL  
Proper Shipping Name (IATA) : Paint  
Proper Shipping Name (ADN) : PAINT RELATED MATERIAL  
Proper Shipping Name (RID) : PAINT RELATED MATERIAL  
Transport document description (ADR) : UN 1263 PAINT RELATED MATERIAL, 3, II, (D/E)  
Transport document description (IMDG) : UN 1263 PAINT RELATED MATERIAL, 3, II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 3  
Danger labels (ADR) : 3



#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3

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### IATA

Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3

Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



#### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

#### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 163, 640C, 650

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28

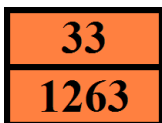
Tank code (ADR) : L1.5BN

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Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

### 14.6.2. Transport by sea

Special provisions (IMDG) : 163  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### 14.6.3. Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A72  
ERG code (IATA) : 3L

### 14.6.4. Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 163, 64C, 65  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1  
Carriage prohibited (ADN) : No  
Not subject to ADN : No

### 14.6.5. Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 163, 640C, 650  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : L1.5BN

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Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33
Carriage prohibited (RID)	: No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

VOC content : 762 g/l

Seveso Information : This product is subject to the Seveso Directive

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 3 - severe hazard to waters

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects
EUH204	Contains isocyanates. May produce an allergic reaction
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R36	Irritating to eyes

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R36/37/38	Irritating to eyes, respiratory system and skin
R37	Irritating to respiratory system
R43	May cause sensitisation by skin contact
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52	Harmful to aquatic organisms
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

*The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.*