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## SAFETY DATA SHEET

# OPTISPERSE ADJ0347 (Boilgard AK 50)

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

#### 1.1. Product identifier

Trade name or designation of the mixture      OPTISPERSE ADJ0347 (Boilgard AK 50)

Date of first issue      14/09/2011

Version number      2.3

Revision date      26/11/2020

Supersedes date      28/02/2018

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

Identified uses      Cleaner

Uses advised against      None known.

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

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,  
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,  
Tashkent Region,  
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Corrosive to metals	Category 1	H290 - May be corrosive to metals.
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##### Health hazards

Skin corrosion/irritation	Category 1A	H314 - Causes severe skin burns and eye damage.
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Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
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#### 2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:      Alcohols, C10, alkoxyated, N-hydroxyethylenediamine triacetic acid trisodium salt, Potassium hydroxide



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### Hazard pictograms



### Signal word

Danger

### Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

### Precautionary statements

#### Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE/doctor.

#### Storage

Not available.

#### Disposal

Not available.

### Supplemental label information

None.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Chemical description

Aqueous alkaline solution of surfactants, inorganic and organic salts

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Potassium hydroxide	5 - < 10	1310-58-3 215-181-3	01-2119487136-33	019-002-00-8	
<b>Classification:</b>	Met. Corr. 1;H290, Acute Tox. 4;H302, Skin Corr. 1A;H314				
Tetrapotassium pyrophosphate	5 - < 10	7320-34-5 230-785-7	01-2119489369-18	-	
<b>Classification:</b>	Eye Irrit. 2;H319				
N-hydroxyethylenediamine triacetic acid trisodium salt	3 - < 10	139-89-9 205-381-9	01-2119972845-22	-	
<b>Classification:</b>	Acute Tox. 4;H302, Eye Dam. 1;H318				
Sodium nitrate	3 - < 10	7631-99-4 231-554-3	01-2119488221-41	-	
<b>Classification:</b>	Ox. Sol. 2;H272, Eye Irrit. 2;H319				
Alcohols, C10, alkoxyated	3 - < 5	166736-08-9	-	-	
<b>Classification:</b>	Acute Tox. 4;H302, Eye Dam. 1;H318				
Trisodium nitrilotriacetate	<= 0,2	5064-31-3 225-768-6	01-2119519239-36	607-620-00-6	
<b>Classification:</b>	Acute Tox. 4;H302, Eye Irrit. 2;H319, Carc. 2;H351				

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Keep eyelids apart. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Do not give anything to eat or drink. Call a physician or poison control centre immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Corrosive effects.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Unsuitable extinguishing media</b>	Not available.

**5.2. Special hazards arising from the substance or mixture** Oxides of carbon, nitrogen and phosphorus evolved in fire.

#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
<b>Special fire fighting procedures</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

### SECTION 6: Accidental release measures

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

**For non-emergency personnel** Wear protective clothing, gloves and safety goggles.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Prevent from entering sewers or the immediate environment.  
Accidental release of large quantities into the aquatic environment may harm aquatic organisms.

**6.3. Methods and material for containment and cleaning up** Absorb onto inert material and dispose of according to Hazardous Waste Regulations.  
Neutralise with dilute acid.  
Remove small spills with plenty of water.

**6.4. Reference to other sections** Please refer also to section no. 8 'Exposure controls' for further information.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Alkaline.  
Avoid contact with strong acids.  
Contains an oxidiser.  
Avoid all contact with reducing agents, oils, greases and organics.



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<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store containers closed when not in use. Store in corrosive resistant container with a resistant inner liner.
<b>7.3. Specific end use(s)</b>	Only for professional and industrial users
<b>Shelf life</b>	720 days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Potassium hydroxide (CAS 1310-58-3)	STEL	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

##### Derived no effect levels (DNELs)

##### Workers

Components	Value	Assessment factor	Notes
N-hydroxyethylenediamine triacetic acid trisodium salt (CAS 139-89-9)			
Long-term, Local, Inhalation	10 mg/m <sup>3</sup>		
Long-term, Systemic, Inhalation	88 mg/m <sup>3</sup>	5	
Potassium hydroxide (CAS 1310-58-3)			
Long-term, Local, Inhalation	1 mg/m <sup>3</sup>	1	
Sodium nitrate (CAS 7631-99-4)			
Long-term, Systemic, Dermal	20,8 mg/kg	72	
Long-term, Systemic, Inhalation	36,7 mg/m <sup>3</sup>	72	
Tetrapotassium pyrophosphate (CAS 7320-34-5)			
Long-term, Systemic, Inhalation	44,08 mg/m <sup>3</sup>	10	
Trisodium nitrilotriacetate (CAS 5064-31-3)			
Long-term, Systemic, Inhalation	3,5 mg/m <sup>3</sup>	18	
Short-term, Systemic, Inhalation	5,25 mg/m <sup>3</sup>	12	

##### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
N-hydroxyethylenediamine triacetic acid trisodium salt (CAS 139-89-9)			
Freshwater	2500 µg/l	10	
Intermittent releases	1920 µg/l	100	
Marine water	250 µg/l	100	
Sediment (freshwater)	107 µg/kg		
Sediment (marine water)	10,7 µg/kg		
Soil	840 µg/kg	100	
STP	50 mg/l	10	
Sodium nitrate (CAS 7631-99-4)			
Freshwater	0,45 mg/l	1000	
Intermittent releases	4,5 mg/l	100	
Marine water	0,045 mg/l	10000	
STP	18 mg/l	10	
Tetrapotassium pyrophosphate (CAS 7320-34-5)			
Freshwater	0,05 mg/l	2000	
Intermittent releases	0,5 mg/l	200	
Marine water	0,005 mg/l	20000	
STP	50 mg/l	20	
Trisodium nitrilotriacetate (CAS 5064-31-3)			
Freshwater	0,93 mg/l	10	



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Intermittent releases	0,915 mg/l	100
Marine water	0,093 mg/l	100
Secondary poisoning	0,2 mg/kg	300
Sediment (freshwater)	3,64 mg/kg	
Sediment (marine water)	0,364 mg/kg	
Soil	0,182 mg/kg	
STP	540 mg/l	1

### 8.2. Exposure controls

#### Appropriate engineering controls

Adequate ventilation to maintain air contaminants below exposure limits.  
 Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Splash proof chemical goggles.  
 Face shield.  
 CEN : EN 166

##### Skin protection

##### - Hand protection

Gauntlet type neoprene gloves (Protection against unintentional short-term contact)  
 Gauntlet type nitrile gloves (Protection against unintentional short-term contact)  
 Gauntlet type rubber gloves (Protection against unintentional short-term contact)  
 Coating thickness: 0.5 mm  
 Penetration time: > 480 min  
 CEN : EN 374-1/2/3/4; EN 420

##### - Other

Chemical resistant apron.  
 CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605

##### Respiratory protection

In case of insufficient ventilation, use a breathing mask with filter type: B2-P2  
 CEN : EN 140; EN 14387

##### Thermal hazards

Not available.

#### Environmental exposure controls

Prevent from entering in public sewers or the immediate environment.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Colour Colourless to pale yellow

Physical state Liquid

Odour Mild

Odour threshold Not available.

pH (concentrated product) > 13

pH in aqueous solution 12,8 (5% SOL.)

Melting point/freezing point < -18 °C

Initial boiling point and boiling range Not available.

Flash point > 100 °C P-M(CC)

Evaporation rate < 1 (Ether = 1)

Flammability (solid, gas) Not applicable.

#### Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapour pressure 18 mm Hg

Vapour pressure temp. 21 °C

Vapour density < 1 (Air = 1)

Relative density 1,23



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**Relative density temperature** 21 °C

**Solubility**

**Solubility (water)** 100 %

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not applicable.

**Decomposition temperature** Not available.

**Viscosity** 16 cps

**Viscosity temperature** 21 °C

**Explosive properties** Not available.

**Oxidising properties** Not available.

**9.2. Other information**

**Pour point** < -18 °C

**Shelf life** 720 days

**VOC** 0 % (Estimated)

### SECTION 10: Stability and reactivity

**10.1. Reactivity** Strong acids.

**10.2. Chemical stability** Material is stable under normal conditions.

**10.3. Possibility of hazardous reactions** Not applicable.

**10.4. Conditions to avoid** No special requirement.

**10.5. Incompatible materials** Avoid contact with strong acids.  
 Avoid contact with aluminium or zinc alloys.

**10.6. Hazardous decomposition products** Oxides of carbon, nitrogen and phosphorus evolved in fire.

### SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

Product	Test Results
OPTISPERSE ADJ0347 (Boilgard AK 50) (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg (Calculated according to GHS additivity formula) Acute Inhalation LC50 Rat: > 5 mg/l 4 hours (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: 2690 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
Potassium hydroxide (1310-58-3)	Acute Oral LD50 Rat: 333 mg/kg
N-hydroxyethylenediamine triacetic acid trisodium salt (139-89-9)	Acute Inhalation LC50 Rat: > 10,054 mg/l 4 hour Acute Oral LD50 Rat: 1780 mg/kg
Alcohols, C10, alkoxyated (166736-08-9)	Acute Oral LD50 Rat: 500 - 2000 mg/kg
Trisodium nitrilotriacetate (5064-31-3)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 5 mg/l 4 Hours Acute Oral LD50 Rat: 1100 mg/kg
Tetrapotassium pyrophosphate (7320-34-5)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Oral LD50 Rat: 2440 mg/kg
Sodium nitrate (7631-99-4)	Acute Dermal LD50 Rabbit: > 5000 mg/kg Acute Oral LD50 Rat: 3236 mg/kg

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

**Skin corrosion/irritation** Causes severe skin burns and eye damage.



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<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Causes digestive tract burns.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Symptoms</b>	Not available.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	None known.
<b>Other information</b>	Not available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Product	Species	Test Results
OPTISPERSE ADJ0347 (Boilgard AK 50) (CAS Mixture)		
LC50	Daphnia magna	271 mg/l, 48 hour
	Fathead minnow	272 mg/l, 96 hour
NOEL	Daphnia magna	115 mg/l, 48 hour
	Fathead minnow	135 mg/l, 96 hour

#### 12.2. Persistence and degradability

- COD (mgO <sub>2</sub> /g)	293 (calculated data)
- BOD 5 (mgO <sub>2</sub> /g)	23 (calculated data)
- BOD 28 (mgO <sub>2</sub> /g)	50 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	27 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days)	9 (calculated data)
- TOC (mg C/g)	76 (calculated data)

#### 12.3. Bioaccumulative potential

<b>Partition coefficient n-octanol/water (log Kow)</b>	
Trisodium nitrilotriacetate	-10,1
<b>Bioconcentration factor (BCF)</b>	
Trisodium nitrilotriacetate	3

#### 12.4. Mobility in soil

Not available.

#### 12.5. Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

#### 12.6. Other adverse effects

Not available.





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## OPTISPERSE ADJ0347 (Boilgard AK 50)

**Summary** The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Contaminated packaging** According to Hazardous Waste Regulations.  
  
EWC ( European Waste Code ) recommendation : 15 01 10  
15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.  
15 01 Packaging (including separately collected municipal packaging waste).  
15 01 10 Packaging containing residues of or contaminated by dangerous substances.  
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

**Disposal methods/information** According to Hazardous Waste Regulations.  
  
EWC ( European Waste Code ) recommendation : 16 03 05  
16 Wastes not otherwise specified in the list.  
16 03 Off-specification batches and unused products.  
16 03 05 Organic wastes containing dangerous substances.  
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

### SECTION 14: Transport information

#### ADR

14.1. UN number UN1814  
14.2. UN proper shipping name Potassium hydroxide solution  
14.3. Transport hazard class(es)  
Class 8  
Subsidiary risk -  
Tunnel restriction code (E)  
14.4. Packing group II  
14.5. Environmental hazards No.  
14.6. Special precautions for user Not available.

#### RID

14.1. UN number UN1814  
14.2. UN proper shipping name Potassium hydroxide solution  
14.3. Transport hazard class(es)  
Class 8  
Subsidiary risk -  
14.4. Packing group II  
14.5. Environmental hazards No.  
14.6. Special precautions for user Not available.

#### ADN

14.1. UN number UN1814  
14.2. UN proper shipping name Potassium hydroxide solution  
14.3. Transport hazard class(es)  
Class 8  
Subsidiary risk -  
14.4. Packing group II  
14.5. Environmental hazards No.  
14.6. Special precautions for user Not available.





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### IATA

14.1. UN number	UN1814
14.2. UN proper shipping name	Potassium hydroxide solution
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
ERG Code	Not available.
14.6. Special precautions for user	Not available.

### IMDG

14.1. UN number	UN1814
14.2. UN proper shipping name	Potassium hydroxide solution
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	This substance/mixture is not intended to be transported in bulk.

ADN; ADR; IATA; IMDG; RID



## SECTION 15: Regulatory information

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

#### EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended  
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended  
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended  
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended  
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended  
Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended  
Not listed.



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**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

### National regulations

Not available.

### 15.2. Chemical safety assessment

Not available.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

### List of abbreviations

EC-No: European Commission Number  
 COD: Chemical Oxygen Demand  
 IATA: International Air Transport Association  
 CAS: Chemical Abstract Service.  
 CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
 CEN: European Committee for Standardization (Comité Européen de Normalisation).  
 TWA: Time Weighted Average.  
 STEL: Short-term Exposure Limit.  
 LD50: Lethal Dose 50%.  
 LC50: Lethal Concentration 50%.  
 EC50: Effective Concentration 50%.  
 NOEL: No observed effect level.  
 BOD: Biochemical oxygen demand.  
 TOC: Total Organic Carbon.  
 ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).  
 IMDG Code: International Maritime Dangerous Goods Code.  
 RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

### References

Safety data sheets of raw materials.



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Version: 2.3

Effective date: 26/11/2020

Previous Date: 28/02/2018

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<b>Information on evaluation method leading to the classification of mixture</b>	The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H351 Suspected of causing cancer.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.
<b>Training information</b>	Provide training on safe handling while considering the type of application and exposure scenarios.
<b>Constituents (Regulation (EC) No 648/2004)</b>	Less than 5 % of non-ionic surfactants 5 but less than 15% of phosphates
<b>Based on EC Directive / Regulations</b>	(EC) No 1907/2006 (REACH) (EC) No 1272/2008 (EU) 2015/830 (EU) No 1357/2014
<b>Further information</b>	Correction in Section: 2,3,8,11