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

### 1.1. Product identifier

Product form : Mixture  
Trade name/designation : NPK(S) 15:15:15(10)

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

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use  
Use of the substance/mixture : Fertilizer

#### 1.2.2. Uses advised against

No data available

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

JSC Apatit  
Severnoye Shosse Str. 75  
162622 Cheropovets, Vologda Region - Russia  
T +7 (8202)5933-09 - F +7 (8202)5550-34  
[cherepovets@phosagro.ru](mailto:cherepovets@phosagro.ru)

### 1.4. Emergency telephone number

Emergency number : +7 (8202) 59-35-15 (24/7) / +7(8202)5933-09 (8:30-17:30 Moscow Time)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture


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

Not classified

### 2.2. Label elements

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

Not applicable.

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### **2.3. Other hazards**

Other hazards : Results of PBT and vPvB assessment : Not applicable. Risk of dust explosion.

## **SECTION 3: Composition/information on ingredients**

### **3.1. Substances**

Not applicable

### **3.2. Mixtures**

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ammonium sulphate	(CAS-No.) 7783-20-2 (EC-No.) 231-984-1 (REACH-no) 01-2119455044-46-XXXX	3 - 52	Not classified
Potassium chloride	(CAS-No.) 7447-40-7 (EC-No.) 231-211-8	13 - 51	Not classified
Diammonium Phosphate	(CAS-No.) 7783-28-0 (EC-No.) 231-987-8 (REACH-no) 01-2119490974-22-0025	2 - 44	Not classified
Monoammonium phosphate	(CAS-No.) 7722-76-1 (EC-No.) 231-764-5 (EC Index) - (REACH-no) 01-2119488166-29-XXXX	3 - 43	Not classified
Amines, C16-18-alkyl	(CAS-No.) 90640-32-7 (EC-No.) 292-550-5 (REACH-no) 01-2119473799-15-XXXX	< 0,06	Not classified

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Gently wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.


Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation : No adverse effects are expected. The following symptoms may occur: Inhalation of dust may cause irritation of the respiratory system.

Skin contact : No adverse effects are expected. The following symptoms may occur: Contact with dust may cause mechanical irritation or drying of the skin.

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Eyes contact : No adverse effects are expected. The following symptoms may occur: Dust may cause painful eye irritation and tearing.

Ingestion : No adverse effects are expected. The following symptoms may occur: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Not flammable. Heating will cause a rise in pressure with a risk of bursting. Risk of dust explosion. Evacuate personnel to a safe area. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous decomposition products in case of fire : Metal oxides. Ammonia. Halogenated compounds.

**5.3. Advice for firefighters**

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Avoid dust formation. Knock down/dilute dust cloud with water spray.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

**SECTION 6: Accidental release measures**

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

**6.1.1. For non-emergency personnel**


For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

**6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation. Avoid dust formation. Knock down/dilute dust cloud with water spray.

### **6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Avoid dust formation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Protect from moisture.

Incompatible materials : Strong acids. Strong bases. Magnesium. alkalis.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Packaging materials : Keep only in the original container.


### **7.3. Specific end use(s)**

No data available.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

<b>Diammonium Phosphate (7783-28-0)</b>		
Latvia	OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Ammophos)
<b>Potassium chloride (7447-40-7)</b>		
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Latvia	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Ammonium sulphate (7783-20-2)</b>		
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

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<b>Ammonium sulphate (7783-20-2)</b>		
Latvia	OEL TWA (mg/m <sup>3</sup> )	0,02 mg/m <sup>3</sup> (hydrate (Ammonium chromum sulfate))

Additional information : Personal air monitoring :. Room air monitoring. Recommended monitoring procedures


## **8.2. Exposure controls**

Engineering measure(s)	: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 . Apply measures to prevent dust explosions. Ensure equipment is adequately earthed.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough time : refer to the recommendations of the supplier
Eye protection	: Use suitable eye protection. (EN166): Safety glasses with side shields
Body protection	: Wear suitable protective clothing.
Respiratory protection	: Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask (EN 149). Half-face mask (EN 140). full face mask (DIN EN 136). Filter type: P (EN 143)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

## **SECTION 9: Physical and chemical properties**

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

Physical state	: Solid
Appearance	: Solid.
Colour	: Various.
Odour	: odourless.
Odour threshold	: Not applicable No data available
pH	: 5,5 - 5,6 (5%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 155 °C
Freezing point	: No data available
Initial boiling point and boiling range	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 155 °C
Flammability (solid, gas)	: Non flammable
Vapour pressure	: 0,00147 Pa (20 °C)

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Bulk density	: 0,98-1,05 t/m3
Vapour density	: Not applicable
Relative density	: 1,62 - 1,81 (20 °C)
Solubility	: No data available. Water: > 100 g/l (20 °C)
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available

#### **9.2. Other information**

No data available

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

None under normal conditions. Reference to other sections: 10.4 & 10.5.

#### **10.2. Chemical stability**

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

#### **10.4. Conditions to avoid**

Protect from moisture. Avoid dust formation. Avoid temperature above : 155°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Safe handling: see section 7.

#### **10.5. Incompatible materials**

Strong acids and strong bases. Magnesium. alkalis. Safe handling: see section 7.

#### **10.6. Hazardous decomposition products**


Reference to other sections: 5.2.

### **SECTION 11: Toxicological information**

#### **11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<b>Monoammonium phosphate (7722-76-1)</b>	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 5000 mg/kg
LC50/inhalation/4h/rat	> 5000 mg/m <sup>3</sup>
<b>Diammonium Phosphate (7783-28-0)</b>	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 5000 mg/kg

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<b>Diammonium Phosphate (7783-28-0)</b>	
LC50/inhalation/4h/rat	> 5000 mg/m <sup>3</sup>
<b>Potassium chloride (7447-40-7)</b>	
LD50/oral/rat	2600 mg/kg
<b>Ammonium sulphate (7783-20-2)</b>	
LD50/oral/rat	2840 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	(8h)> 1000 mg/m <sup>3</sup>

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5,5 - 5,6 (5%)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5,5 - 5,6 (5%)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
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)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-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)
Other adverse effects	: None.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

## SECTION 12: Ecological information


### 12.1. Toxicity

Environmental properties	: According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".
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<b>Monoammonium phosphate (7722-76-1)</b>	
LC50 fish 1	> 85,9 (96 h)
EC50 Daphnia 1	169 mg/l (48 h)
ErC50 (algae)	> 100 mg/l

<b>Diammonium Phosphate (7783-28-0)</b>	
LC50 fish 1	> 85,9 (96 h)
EC50 Daphnia 1	169 mg/l (48 h)
LC50 fish 2	24,8 - 29,4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
ErC50 (algae)	> 100 mg/l
NOEC	100 mg/l

<b>Potassium chloride (7447-40-7)</b>	
LC50 fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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<b>Potassium chloride (7447-40-7)</b>	
LC50 fish 2	750 - 1020 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Ammonium sulphate (7783-20-2)</b>	
LC50 fish 1	53 mg/l (96 h)
EC50 Daphnia 1	169 mg/l ( Daphnia magna )
LC50 fish 2	480 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through])
ErC50 (algae)	2700 mg/l
NOEC chronic fish	5,29 mg/l
NOEC chronic crustacea	3,12 mg/l

#### **12.2. Persistence and degradability**

<b>NPK(S) 15:15:15(10)</b>	
Persistence and degradability	No data available.
<b>Ammonium sulphate (7783-20-2)</b>	
Persistence and degradability	inorganic.

#### **12.3. Bioaccumulative potential**

<b>NPK(S) 15:15:15(10)</b>	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No indication of bioaccumulation potential.
<b>Monoammonium phosphate (7722-76-1)</b>	
BCF fish 1	(no bioaccumulation expected)
<b>Diammonium Phosphate (7783-28-0)</b>	
BCF fish 1	(no bioaccumulation expected)
<b>Ammonium sulphate (7783-20-2)</b>	
Partition coefficient n-octanol/water	-5,1 (at 25 °C)
Bioaccumulative potential	inorganic.

#### **12.4. Mobility in soil**

<b>NPK(S) 15:15:15(10)</b>	
Mobility in soil	Adsorbs into the soil


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

<b>NPK(S) 15:15:15(10)</b>	
Results of PBT assessment	Not applicable
<b>ingredient</b>	
Ammonium sulphate (7783-20-2)	Not applicable

#### **12.6. Other adverse effects**

Other adverse effects : No data available.



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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport


Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

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

Code: IBC : 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**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

72. The substances listed in column 1 of the Table in Appendix 12	Monoammonium phosphate
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

**15.1.2. National regulations**

**Germany**

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen : Amines, C16-18-alkyl is listed

SZW-lijst van mutagene stoffen : Amines, C16-18-alkyl is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed


**15.2. Chemical safety assessment**

Not required

**SECTION 16: Other information**

Indication of changes:

1.1	Substance name	Modified	
5.2	Hazardous decomposition products in case of fire	Added	
6.3	Methods for cleaning up	Modified	

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7.2	Handling and storage	Modified	
8.2	Exposure controls	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.1	Environmental properties	Modified	
13.1	Disposal considerations	Modified	
14	Transport information	Modified	
15.1	REACH Annex XVII	Modified	
16	Other information	Modified	

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : Supplier sds. ECHA (European Chemicals Agency). LOLI.

Other information : Assessment/classification CLP. Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

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

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