

# SAFETY DATA SHEET

YaraVita SOLATREL

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

### **<u>1.1 Product identifier</u>**

Product name Product code Product type YaraVita SOLATREL

: PYPAQM

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#### : liquid

### **<u>1.2</u>** Relevant identified uses of the substance or mixture and uses advised against

#### Identified uses

Industrial distribution. Industrial USE to formulate chemical product mixtures. Professional formulation of fertiliser products. Professional USE as fertiliser at Farm - loading and spreading. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field (e.g. Fertigation). Professional USE as fertiliser - maintenance of equipment.

Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier
	cannot approve this use.

#### **<u>1.3 Details of the supplier of the safety data sheet</u>**

		Yara Norge AS
<u>Address</u>		
Street	: ÷	Drammensveien 131
Postal code		0277
City		Oslo
Country		Norway
P.O. Box Address		
P.O. Box		343 Skøyen
Postal code		0213
City		Oslo
Country	÷ .	Norway
		. 47 04 45 74 40
Telephone number		+47 24 15 71 10
Fax no.	- ÷	+47 24 15 71 83
e-mail address of person		sds.landbruk@yara.com
responsible for this SDS		

#### **<u>1.4 Emergency telephone number</u>**

National advisory body/Poison Center					
Name	1	Giftinformasjonen (Poison Center)			
Telephone number	1	+47 22 59 13 00			
Hours of operation	1	24h			
<u>Supplier</u> Telephone number Hours of operation	:	+47 21 03 44 52 (7/24)			

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture					
Product definition	:	Mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]					
Classification	:	Met. Corr.1, H290 Skin Corr./Irrit.1, H314			
Classification according to Directive 1999/45/EC [DPD]					
Classification	:	C, R35			
See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.					
2.2 Label elemente					

2.2	Label	elements

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	May be corrosive to metals. Causes severe skin burns and eye damage.
Precautionary statements		
Prevention	:	Do not breathe gas or vapour. Wear protective gloves/clothing and eye/face protection.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Storage	:	Keep only in original container.
Hazardous ingredients	:	phosphoric acid calcium bis(dihydrogenorthophosphate) manganese dinitrate
Supplemental label elements	:	Not applicable.
		D 0//0

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirements	<u>i</u>	
Containers to be fitted with	:	Not applicable.
child-resistant fastenings Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006,	:	Not applicable.
Annex XIII Other hazards which do not result in classification	:	None.

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

Substance/mixture

Mixture

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Broduct / ingradiant	duct / ingradiant		<u>C</u>		
Product / ingredient Identifiers		%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
phosphoric acid	RRN: 01-2119485924- 24 EC: 231-633-2 CAS : 7664-38-2 Index: 015-011-00-6	>=15 - <20	C; R34	Skin Corr./Irrit. 1B H314 Met. Corr. 1 H290	[1][2]
calcium bis(dihydrogenorthoph osphate)	RRN: 01-2119490065- 39 EC: 231-837-1 CAS : 7758-23-8	>=3 - <5	Xi; R41	Eye Dam./Irrit. 1 H318	[1]
manganese dinitrate	RRN: Not available. EC: 233-828-8 CAS : 10377-66-9	>=2 - <3	O; R8 Xn; R22 R48/20 C; R34 R52/53 Xi; R41	Not classified.	[1][2]

zinc bis(dihydrogen phosphate)	RRN: Not available. EC: 237-067-2 CAS : 13598-37-3	>=1 - <2	Xn; R22 N; R50 R51/53	Acute Tox. 4 H302 Aquatic Acute 1 H400 Aquatic Chronic 2M- factor : 1	[1]

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

See Section 16 for the full text of the R phrases or H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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

#### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.
Inhalation	:	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
Skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
Ingestion	:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

<u>Potential acute health effects</u> Eye contact	:	Causes serious eye damage.
Inhalation	:	Can irritate eyes, nose, mouth and throat. Vapor is strongly irritating to the eyes and respiratory system.

Skin contact	:	Causes severe burns.	
Ingestion	:	May cause burns to mouth, throat and stomach.	
<u>Over-exposure signs/symptoms</u> Eye contact	<u>3</u> :	Adverse symptoms may include the following: pain watering redness	
Inhalation	:	No specific data.	
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur	
Ingestion	:	May cause burns to mouth, throat and stomach.	
4.3 Indication of any immediate medical attention and special treatment needed			
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

Specific treatments : No specific treatment.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None identified.
5.2 Special hazards arising from	the	substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. Reacts violently with water. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Acidic. In a fire, decomposition may produce toxic gases/fumes.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
5.3 Advice for firefighters		
Special precautions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information		None.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for con	ntai	nment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Spillages should be cleaned up promptly to avoid damage to surrounding materials.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities		
Recommendations	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.
7.3 Specific end use(s)		
Recommendations	:	Not available.
Industrial sector specific solutions	:	Not available.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

### **Occupational exposure limits**

Product / ingredient name	Exposure limit values	
phosphoric acid	EU OEL (2000-06-01)	
	Time Weighted Average (TWA) 1 mg/m3	
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	EU OEL (2000-06-01) Short Term Exposure Limit 2 mg/m3
	FOR-2011-12-06-1358 (1996-02-01) Time Weighted Average (TWA)
	1 mg/m3
manganese dinitrate	FOR-2011-12-06-1358 (2008-07-01)
	Time Weighted Average (TWA) 1 mg/m3 Form: Inhalable fraction (Calculated as Mn)
	<b>FOR-2011-12-06-1358 (2008-07-01)</b> Time Weighted Average (TWA) 0,1 mg/m3 Form: Respirable fraction_(Calculated as Mn)
	<b>FOR-2011-12-06-1358 (2008-07-01)</b> Time Weighted Average (TWA) 0,1 mg/m3 Form: Respirable fraction_(Calculated as Mn)
Recommended monitoring procedures	<ul> <li>If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the</li> </ul>

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres -Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the

determination of hazardous substances will also be required.

### DNELs/DMELs

Product / ingredient name	Туре	Exposure	Value	Population	Effects
phosphoric acid	DNEL	Long term Inhalation	2,92 mg/m <sup>3</sup>	Workers	Systemic
phosphoric acid	DNEL	Long term Inhalation	0,73 mg/m <sup>3</sup>	Consumers	Systemic

### 8.2 Exposure controls

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measures		
Hygiene measures	1	A washing facility or water for eye and skin cleaning purposes should be present.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Tightly-fitting goggles CEN: EN166

Skin protection Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): Protective gloves should be worn under normal conditions of use.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Recommended: acid gas filter (Type E)
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

### 9.1 Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor threshold pH	:	liquid Red. Not determined. Not determined. 1,8
Melting point/freezing point	:	< 0 °C
Initial boiling point and boiling range	:	Not determined
Flash point Evaporation rate Flammability (solid, gas)	:	Not determined Not determined Non-flammable.
Burning time Burning rate Upper/lower flammability or explosive limits Vapor pressure Vapor density Relative density		Not determined Not determined <b>Lower:</b> Not determined <b>Upper:</b> Not determined Not determined Not determined 1,470
Bulk density Partition coefficient: n- octanol/water Auto-ignition temperature Viscosity	:	Not determined Not determined Not determined <b>Dynamic:</b> < 100 mPa.s

Kinematic: Not determined

Explosive properties Oxidizing properties : None. : None.

9.2 Other information

No additional information.

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

10.1 Reactivity	:	May be corrosive to metals.Expert judgment
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid contamination by any source including metals, dust and organic materials.
10.5 Incompatible materials	:	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

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

### Acute toxicity

Product /	Result	Species	Dose	Exposure	References	
ingredient name		-		-		
phosphoric acid						
	LD50 Oral	Rat	2.600 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method	-	IUCLID5	
calcium bis(dihydro	genorthophospha	ate)				
	LD50 Oral	Rat	3.986 mg/kg	-	NTIS** OTS0571950	
	LD50 Dermal	Rabbit	> 2.000 mg/kg	-	NTIS** OTS0571950	
manganese dinitrat	te			L		
	LD50 Oral	Rat - Female	> 300 mg/kg	-	IUCLID 5	
zinc bis(dihydroger	zinc bis(dihydrogen phosphate)					
	LD50 Oral	Rat	1.990 mg/kg	-	TOVEFN (2),35,1995	

### Conclusion/Summary

No known significant effects or critical hazards.

### Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation	References
phosphoric acid	Skin - Visible necrosis Primary dermal irritation index (PDII)	Rabbit		1 h	72 h	IUCLID5
calcium bis(dihydrogeno rthophosphate)	Eyes - Severe irritant OECD 405	Rabbit			-	
manganese dinitrate	Skin - Severe irritant OECD 404	Rabbit			-	

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Conclusion/Summary Skin Eyes Respiratory <u>Sensitization</u>	:	Corrosive to the skin. Causes serious eye damage. May be irritating to the respiratory system.
Conclusion/Summary Skin Respiratory	:	No data available for this end-point, hence this classification is not considered to be applicable. No data available for this end-point, hence this classification is not considered to be applicable.
<u>Mutagenicity</u>		
Conclusion/Summary	:	No known significant effects or critical hazards.
<b>Carcinogenicity</b>		
Conclusion/Summary	:	No known significant effects or critical hazards.

### Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
phosphoric acid	-	Negative	-	Rat	Oral : > 500 mg/kg bw/day OECD 422	54 days	IUCLID5
	Negative	-	Negative	Rat	Oral : > 410 mg/kg bw/day OECD 414	10 days	IUCLID5
	Negative	-	Negative	Mouse	Oral : > 370 mg/kg	10 days	IUCLID5

Conclusion/Summary

: No known significant effects or critical hazards.

### **Teratogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

### Specific target organ toxicity (repeated exposure)

Product / ingredient name	Category	Route of exposure	Target organs		
manganese dinitrate	Category 2	Inhalation	brain		
Information on the likely routes of exposure	: No known significant effects or critical hazards.				
Potential acute health effects					
Inhalation		te eyes, nose, mouth an rritating to the eyes and			
Ingestion	: May cau	se burns to mouth, throa	t and stomach.		
Skin contact	: Causes s	severe burns.			
Eye contact	: Causes s	serious eye damage.			
Symptoms related to the phys	ical, chemical a	nd toxicological chara	cteristics		
Inhalation	: No speci	fic data.			
Ingestion	: May cau	se burns to mouth, throa	t and stomach.		
Skin contact	pain or ir redness	symptoms may include t ritation may occur	he following:		
Eye contact	: Adverse watering	symptoms may include t redness	he following: pain		
Delayed and immediate effects and also chronic effects from short and long term exposure					
<u>Short term exposure</u> Potential immediate effects	: No know	n significant effects or cr	itical bazarde		
Potential delayed effects		n significant effects or cr			
Long term exposure Potential immediate effects		n significant effects or cr			
Potential delayed effects		n significant effects or ci			

### Potential chronic health effects

Product / ingredient name	Result	Species	Dose	Exposure	References
phosphoric acid	Sub-chronic	Rat	250 mg/kg	54 days	IUCLID5

	NOAEL	Oral	
			OECD 422
Conclusion/Summary	/	:	No known significant effects or critical hazards.
General		:	No known significant effects or critical hazards.
Carcinogenicity		:	No known significant effects or critical hazards.
Mutagenicity		:	No known significant effects or critical hazards.
Teratogenicity		:	No known significant effects or critical hazards.
Developmental effe	cts	:	No known significant effects or critical hazards.
Fertility effects			No known significant effects or critical hazards.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product / ingredient name	Result	Species	Exposure	References
phosphoric acid				
	Acute EC50 > 100 mg/l Fresh water OECD 202	Aquatic invertebrates. Daphnia	48 h	IUCLID5
	Acute EC50 > 100 mg/I Fresh water OECD 201	Aquatic plants - Algae	72 h	IUCLID5
manganese dinitrate	·			
	Acute LC50 49,9 mg/l Marine water	Fish - Fish	96 h	IUCLID 5

**Conclusion/Summary** : No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

<b>Conclusion/Summary</b>	: No known significant effects or critical hazards.						
Product / ingredient	Aquatic half-life	Photolysis	Biodegradability	References			
name							
calcium bis(dihydrogenc	orthophosphate)						
			Not relevant for inorganic substances.				
zinc bis(dihydrogen pho	sphate)						
			Not relevant for inorganic substances.				

#### **12.3 Bioaccumulative potential**

Conclusion/Summary

: No known significant effects or critical hazards.

#### 12 4 Mobility in soil

12.4 WODINLY IN SOIL		
Soil/water partition coefficient	1	Not available.
(KOC)		
Mobility	1	Not available.

#### 12.5 Results of PBT and vPvB assessment

РВТ	:	Not applicable.
vPvB	:	Not applicable.

**12.6 Other adverse effects** : No known

: No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods		
Product		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.
Packaging		
Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way.
		Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.
		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

Regulation: ADR/RID			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
	(orthophosphoric acid, )		
14.3 Transport hazard class(es)	8		
14.4 Packing group			
14.5 Environmental hazards	No.		

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14.6 Additional information	: ADR/RID	
Hazard identification number	: 80	
Limited quantity	: 5.00 L	
Tunnel code	: (E)	

Regulation: ADN			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
	(orthophosphoric acid, )		
14.3 Transport hazard class(es)	8		
	8		
14.4 Packing group			
14.5 Environmental hazards	No.		
14.6 Additional information	: ADN		
Marine pollutant	: No.		

Regulation:	IMDG

Regulation. In DO			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (orthophosphoric acid, )		
14.3 Transport hazard class(es)	8 8		
14.4 Packing group			
14.5 Environmental hazards	No.		
14.6 Additional information	: IMDG		
Marine pollutant	: No.		
IMDG Code Segregation group	: SG01		
Emergency schedules (EmS)	: F-A, S-B		

Regulation: IATA			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
	(orthophosphoric acid, )		
14.3 Transport hazard class(es)			
14.4 Packing group			
14.5 Environmental hazards	No.		
14.6 Additional information	: IATA		
Marine pollutant	No.		
Passenger and Cargo Aircraft			

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Quantity limitation	: 5.00 L
Packaging instructions	: 852
Cargo Aircraft	
Quantity limitation	: 60.00 L
Packaging instructions	: 856

**<u>14.7</u>** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

14.8 IMSBC

: Not applicable.

### **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)					
Annex XIV - List of substances subject to authorization					
Substances of very high concern					

Not applicable.

Other EU regulations		
Europe inventory	:	All components are listed or exempted.
Seveso II Directive This product is not controlled unde National regulations	r the	e Seveso II Directive.
Notes	:	To our knowledge no other country or state specific regulations are applicable.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

Abbreviations and acronyms	-	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative bw = Body weight
Key literature references and sources for data	:	EU REACH IUCLID5 CSR. National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Regulation (EC) No 1272/2008 Annex VI.

#### <u>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008</u> [CLP/GHS]

Classification			Justification		
Met. Corr. 1 H290			Expert judgment		
Skin Corr./Irrit. 1 H314			On basis of test data.		
Full text of abbreviated H statements	:	<ul> <li>H302 Harmful if swallowed.</li> <li>H400 Very toxic to aquatic life.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>H318 Causes serious eye damage.</li> <li>H290 May be corrosive to metals.</li> <li>H272 May intensify fire; oxidizer.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>			
Full text of classifications [CLP/GHS]	:	Aquatic Acu Category 1 Aquatic Chro - Category 2 Aquatic Chro - Category 3 Eye Dam./Irr IRRITATION Met. Corr. 1, Ox. Sol. 2, H Skin Corr./Irr Category 1 Skin Corr./Irr - Category 10 Skin Corr./Irr - Category 10 STOT RE 2, 1	rit. 1C, H314: SKIN CORROSION/IRRITATION		
Full text of abbreviated R phrases	:	R22- Harmfu R48/20- Harm prolonged ex R34- Causes R41- Risk of R38- Irritating R50- Very tox R51/53- Toxi adverse effec R52/53- Harm	serious damage to eyes.		
Full text of classifications [DSD/DPD]	:	O - Oxidizing C - Corrosive			

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		Xn - Harmful		
		Xi - Irritant		
		N - Dangerous for the environment.		
Revision comments		See Section 1 for supplier contact information.		
Date of printing	1	06.10.2014		
Date of issue/ Date of revision	1	18.07.2014		
Date of previous issue	1	00.00.0000		
Version	10	1.0		
Prepared by	10	Yara Product Classifications & Regulations.		
Indicates information that has changed from previously issued version.				

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.



### Annex to the extended Safety Data Sheet (eSDS) -Exposure Scenario:

Identification of the substance Product definition	e or :	<b>mixture</b> Mixture
Product name	:	YaraVita SOLATREL
Exposure Scenario information	:	Not yet complete.