# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 9 October 2024

Version

: 3



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

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1.1 Product identifier	
Product name	: SIGMAPRIME 700 HARDENER
Product code	: 000001074765
Other means of identifica	tion
00317124; 00471886	
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	<b>: ⊮</b> ardener.; Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	of the safety data sheet
Varossieau Suriname NV, Mastanaweg 4, Paramaribo SURINAME Tel: 00597 484447 Fax: 00597 483785	,

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone : 0031 (0)20 4075210 number

## **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]

Flam. Liq. 3, H226 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms :





Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (	EU)
2020/878	

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

# SECTION 2: Hazards identification

Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>May cause respiratory irritation.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	: Collect spillage.
Storage	: Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P403 + P233, P501</li> </ul>
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.
Other hazards which do not result in classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥10 - ≤25	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
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Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRI	ME 700 HARDENER		
SECTION 3: Composition/information on ingredients			

			Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412		
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-	[1] [3]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≥5.0 - ≤10	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥5.0 - ≤9.4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≥1.0 - <5.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

# **SECTION 4: First aid measures**

4.1 Description of first aid m	easures
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

Potential acute health effective Eye contact	
Eve contact	
	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	liate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

# SECTION 5: Firefighting measures

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5.1 Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishin media	g :	Do not use water jet.

Code : 000001074765 SIGMAPRIME 700 HARDENER Date of issue/Date of revision

: 9 October 2024

## **SECTION 5: Firefighting measures**

5.2 Special hazards arising from the substance or mixture					
Hazards from the substance or mixture	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard a fire or if heated, a pressure increase will occur and the container may burst, with risk of a subsequent explosion. This material is toxic to aquatic life with long lastir effects. Fire water contaminated with this material must be contained and prevent from being discharged to any waterway, sewer or drain.	the ig			
Hazardous combustion products	Decomposition products may include the following materials: carbon oxides nitrogen oxides				
5.3 Advice for firefighters					
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suita training. Move containers from fire area if this can be done without risk. Use wate spray to keep fire-exposed containers cool.	ble			
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained brea apparatus (SCBA) with a full face-piece operated in positive pressure mode. Cloth for fire-fighters (including helmets, protective boots and gloves) conforming to Euro standard EN 469 will provide a basic level of protection for chemical incidents.	ning			

## **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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour 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 spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.		
6.3 Methods and material for	containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.		
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>		

Code : 000001074765

Date of issue/Date of revision

: 9 October 2024

SIGMAPRIME 700 HARDENER

# **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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. 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 locked up. Eliminate all ignition sources. Separate from oxidising materials. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

### **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			
<b>k</b> ylene	EU OEL (Europe, 1/202	2) [xylene, mixed isomers] Abs	sorbed	
	through skin.			
	TWA 8 hours: 50 ppm.			
	TWA 8 hours: 221 mg/r	n³.		
	STEL 15 minutes: 100	ppm.		
	STEL 15 minutes: 442	mg/m³.		
1-methoxy-2-propanol	EU OEL (Europe, 1/202	2) Absorbed through skin.		
	TWA 8 hours: 100 ppm	l.		
	TWA 8 hours: 375 mg/r	n³.		
	STEL 15 minutes: 150	ppm.		
	STEL 15 minutes: 568	mg/m³.		
2-methylpropan-1-ol	ACGIH TLV (United Sta	tes, 7/2023)		
1	English (GB)	Suriname	6/18	

Code : 000001074765	Date of issue/Date of revision : 9 October 2024
IGMAPRIME 700 HARDENER	
	TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m <sup>3</sup> .
ethylbenzene	EU OEL (Europe, 1/2022) Absorbed through skin.
-	TWA 8 hours: 100 ppm.
	TWA 8 hours: 442 mg/m <sup>3</sup> .
	STEL 15 minutes: 200 ppm.
	STEL 15 minutes: 884 mg/m <sup>3</sup> .
3,6-diazaoctanethylenediamin	IPEL (-) Absorbed through skin.
	TWA: 1 ppm.
Viene	DOL BEI (South Africa, 3/2021) [xylenes]

BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.

ethylbenzene

**DOL BEI (South Africa, 3/2021)** BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

Recommended monitoring procedures : 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 Dreadure//in merediantements	<b>T</b>	<b>F</b>	Matur	Denvelotio	<b>-f</b> ( + -
Product/ingredient name	Туре	Exposure	Value	Population	Effects
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine	DNEL	Long term Oral	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	97.2 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.169 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.272 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	0.952 mg/m <sup>3</sup>	Workers	Systemic
xylene	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	221 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local
	DNEL	Short term Inhalation	260 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	442 mg/m <sup>3</sup>	Workers	Systemic
Phenol, methylstyrenated	DNEL	Long term Oral	0.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.348 mg/m <sup>3</sup>	General	Systemic
	DNEL	Long term Inhalation	1.41 mg/m³	Workers	Systemic
		English (GB)	Surinam	e	7/18

Code <th::000001074765< th="">Date of issue/Date of revision: 9SIGMAPRIME 700 HARDENERDNELLong term Dermal1.67 mg/kg bw/dayGeneral popula1-methoxy-2-propanolDNELLong term Dermal3.5 mg/kg bw/dayGeneral popula1-methoxy-2-propanolDNELLong term Oral3.5 mg/kg bw/dayGeneral populaDNELLong term OralDNELLong term Oral3.5 mg/kg bw/dayGeneral populaDNELDNELLong term Inhalation43.9 mg/m³General populaDNELDNELLong term Dermal78 mg/kg bw/dayGeneral populaDNELDNELLong term Dermal183 mg/kg bw/dayWorke Worke2-methylpropan-1-olDNELDNELLong term Inhalation DNEL553.5 mg/m³Worke General</th::000001074765<>	tion rs Systemic al Systemic tion al Systemic tion al Systemic tion rs Systemic
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	al Local
popula	
DNEL Long term Inhalation 310 mg/m <sup>3</sup> Worke	
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day popula	
DNEL Short term Dermal 0.075 mg/kg bw/ Genera	
day popula	
DNEL Long term Dermal 0.075 mg/kg bw/ Genera	
day popula	
DNEL Short term Inhalation 0.13 mg/m <sup>3</sup> Genera	,
popula	
DNEL Long term Inhalation 0.13 mg/m <sup>3</sup> Genera	
popula	
DNEL Long term Dermal 0.15 mg/kg bw/day Worke	,
DNEL Long term Inhalation 0.53 mg/m <sup>3</sup> Worke	,
DNEL Short term Dermal 0.6 mg/kg bw/day Worke	,
Example 1DNELShort term Inhalation2.1 mg/m³WorkeethylbenzeneDMELLong term Inhalation442 mg/m³Worke	~
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DNEL Long term Oral 1.6 mg/kg bw/day Genera	~
popula	~
DNEL Long term Inhalation 15 mg/m <sup>3</sup> Genera	
popula	
DNEL Long term Inhalation 77 mg/m <sup>3</sup> Worke	rs Systemic
DNEL Long term Dermal 180 mg/kg bw/day Worke	
DNEL Short term Inhalation 293 mg/m <sup>3</sup> Worke	
3,6-diazaoctanethylenediamin DNEL Long term Dermal 28 µg/cm <sup>2</sup> Worke	
DNEL Long term Dermal 0.25 mg/kg bw/day Genera	
popula	
DNEL Long term Inhalation 0.29 mg/m <sup>3</sup> Genera	
popula	
DNEL Long term Oral 0.41 mg/kg bw/day Genera	al Systemic
popula	tion
DNEL Long term Dermal 0.43 mg/cm <sup>2</sup> Genera	al Local
popula	
DNEL Long term Dermal 0.57 mg/kg bw/day Worke	
DNEL Short term Dermal 1 mg/cm <sup>2</sup> Genera	
popula	
DNEL Long term Inhalation 1 mg/m <sup>3</sup> Worke	
DNEL Short term Dermal 8 mg/kg bw/day Genera	
popula	
DNEL Short term Oral 20 mg/kg bw/day Genera	
popula	
DNEL Short term Inhalation 1600 mg/m <sup>3</sup> Generation	
popula	
DNEL         Short term Inhalation         5380 mg/m³         Worke	rs Systemic

### **PNECs**

Code: 000001074765Date of issue/Date of revision: 9 October 2024SIGMAPRIME 700 HARDENER

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall- oil fatty acids and triethylenetetramine-Fresh water	0.043 mg/l 0 mg/l	Assessment Factors
oil fatty acids and triethylenetetramine		
- Marine water		Assessment Factors
- Sewage Treatment Plan		Assessment Factors
- Fresh water sediment	434.02 mg/kg dwt	Equilibrium Partitioning
- Marine water sediment	43.4 mg/kg dwt	Equilibrium Partitioning
- Soil	86.78 mg/kg dwt	Equilibrium Partitioning
xylene - Fresh water	0.327 mg/l	-
- Marine water	0.327 mg/l	-
- Sewage Treatment Plan		-
- Fresh water sediment	12.46 mg/kg dwt	-
- Marine water sediment	12.46 mg/kg dwt	-
- Soil	2.31 mg/kg	-
1-methoxy-2-propanol - Fresh water	10 mg/l	Assessment Factors
- Marine water	1 mg/l	Assessment Factors
- Sewage Treatment Plan		Assessment Factors
- Fresh water sediment	41.6 mg/kg	Equilibrium Partitioning
- Marine water sediment	4.17 mg/kg	Equilibrium Partitioning
- Soil	2.47 mg/kg	Equilibrium Partitioning
2-methylpropan-1-ol - Fresh water	0.4 mg/l	Assessment Factors
- Marine water	0.04 mg/l	Assessment Factors
- Sewage Treatment Plan		Assessment Factors
- Fresh water sediment	1.56 mg/kg dwt	Equilibrium Partitioning
- Marine water sediment	0.156 mg/kg dwt	-
- Soil	0.076 mg/kg dwt	Equilibrium Partitioning
ethylbenzene - Fresh water	0.1 mg/l	Assessment Factors
- Marine water	0.01 mg/l	Assessment Factors
- Sewage Treatment Plan		Assessment Factors
- Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
- Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
- Soil	2.68 mg/kg dwt	Equilibrium Partitioning
- Secondary Poisoning	20 mg/kg	-

8.2 Exposure controls Appropriate engineering controls	other engineering of recommended or s	controls to keep worker exp tatutory limits. The engined centrations below any lowe	ess enclosures, local exhaust osure to airborne contaminan ering controls also need to kee r explosive limits. Use explos	ts below any ep gas,
Individual protection meas	• •	511 <b>.</b>		
Hygiene measures	Wash hands, forea eating, smoking ar Appropriate technic Contaminated worl contaminated cloth	Id using the lavatory and at ques should be used to rem < clothing should not be allo	ter handling chemical product the end of the working period. love potentially contaminated wed out of the workplace. We that eyewash stations and sa	clothing. ash
Eye/face protection Skin protection	Chemical splash g	oggles and face shield.		
Hand protection	worn at all times w necessary. Consid during use that the noted that the time glove manufacture protection time of t frequently repeated	hen handling chemical prod lering the parameters speci- gloves are still retaining the to breakthrough for any glo rs. In the case of mixtures, he gloves cannot be accura contact may occur, a glove	ing with an approved standard lucts if a risk assessment indic fied by the glove manufacture eir protective properties. It sho ove material may be different f consisting of several substan itely estimated. When prolong e with a protection class of 6 according to EN 374) is recom	cates this is r, check ould be or different ces, the ged or
		English (CB)	Surinamo	0/18

|--|

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission	on Regulation (EU)
2020/878	

Code : 00000107476	5	Date of issue/Date of revision : 9 October 2024
SIGMAPRIME 700 HARDENE	R	
		When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	1	nitrile neoprene
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

Appearance				
Physical state	: Liquid.			
Colour	: Colourless.			
Odour	: Aromatic.			
Odour threshold	: Not available.			
Melting point/freezing point Initial boiling point and	: Not determined. : >37.78°C			
boiling range				
Flammability	: Not determined. There	e are no data availa	ble on the mi	xture itself.
Upper/lower flammability or explosive limits	: Not available.			
Flash point	: Closed cup: 30°C			
Auto-ignition temperature	: Ingredient name	°C	°F	Method
			518	
	1-methoxy-2-propanol	270	518	
Decomposition temperature	1-methoxy-2-propanol : Stable under recomme			ditions (see Section 7).
Decomposition temperature pH		ended storage and		ditions (see Section 7).
	: Stable under recomme	ended storage and ole in water. erature): Not availat perature): >400 mm	handling cono	ditions (see Section 7).
рН	<ul> <li>Stable under recomme</li> <li>Not applicable. insolut</li> <li>Øynamic (room tempe Kinematic (room tempe</li> </ul>	ended storage and ole in water. erature): Not availat perature): >400 mm mm²/s	handling cono	ditions (see Section 7).

Code : 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDENER		

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

Media	Result		
cold water	Not soluble		
Partition coefficient: n-octa water	nol/ : Not applicable.		
Vapour pressure	:	Vapour Pressure at 20°C	Vapour pressure at 50°C

	Vapour Pressure at 20°C		Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
-methylpropan-1-ol	<12.00102	<1.6	DIN EN 13016-2			

Relative density	: 0.96
Explosive properties	<ul> <li>The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.</li> </ul>
Oxidising properties	: Product does not present an oxidizing hazard.
Particle characteristics	
Median particle size	: Not applicable.

### 9.2 Other information

No additional information.

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

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
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	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides

# **SECTION 11: Toxicological information**

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
	English (GB)	Sı	iriname	11/18

 Code
 <th::000001074765</th>
 Date of issue/Date of revision
 : 9 October 2024

 SIGMAPRIME 700 HARDENER
 SECTION 11: Toxicological information

# **SECTION 11: Toxicological information**

1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	1465 mg/kg	-
	LD50 Oral	Rat	1716 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
✓atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
xylene	Skin - Irritant Skin - Moderate irritant	Human Rabbit	-	- 24 hours 500 mg	-

### Conclusion/Summary

Skin : There are no data available on the mixture itself.

- **Eyes** : There are no data available on the mixture itself.
- Respiratory

: There are no data available on the mixture itself.

## <u>Sensitisation</u>

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitising

<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxici	t <u>y (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
2-methylpropan-1-ol	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects

English	(GB)
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Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME	E 700 HARDENER		

## **SECTION 11: Toxicological information**

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Product/ingredient name	Result
xylene ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely : Not available. routes of exposure	i

Potential acute health effects

Inhalation	: May cause respiratory irritation.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to the	physical, chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: Adverse symptoms may include the following: stomach pains
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe	<u>s</u>	
Not available.		
Conclusion/Summary	Not available.	
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	

English (GB)

Code	: 000001074765	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME	E 700 HARDENER		

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

### **Reproductive toxicity**

: No known significant effects or critical hazards.

### Other information

: Not available.

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

### **11.2 Information on other hazards**

### 11.2.1 Endocrine disrupting properties

Not available.

### **11.2.2 Other information**

Not available.

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

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	OECD 301D Ready Biodegradability - Closed Bottle Test	4 % - Not readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-	-	Not readily
xylene	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol ethylbenzene	-	-	Not readily Readily

#### 12.3 Bioaccumulative potential

English (GB)	Suriname	14/18

Code : 0000010747	5	Date of issue/Date of revision	: 9 October 2024
SIGMAPRIME 700 HARDEN	ER		

# **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
Phenol, methylstyrenated	3.627	-	Low
1-methoxy-2-propanol	<1	-	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
ethylbenzene	3.6	79.43	Low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	Low

### 12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Atty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	No	N/A	N/A	No	N/A	N/A	N/A
xylene	No	N/A	No	No	No	N/A	No
Phenol, methylstyrenated	No	N/A	N/A	No	SVHC (Candidate)	Specified	Specified
1-methoxy-2-propanol	No	N/A	N/A	No	Ň/A	N/A	N/A
2-methylpropan-1-ol	No	N/A	N/A	No	N/A	N/A	N/A
2,4,6-tris (dimethylaminomethyl)phenol	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	No	N/A	No	Yes	No	N/A	No
3,6-diazaoctanethylenediamin	No	N/A	N/A	No	N/A	N/A	N/A

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

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 minimised 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	: Yes.
European waste catalog	ue (EWC)

Code: 000001074765Date of issue/Date of revision: 9 October 2024SIGMAPRIME 700 HARDENER

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

Waste code	Waste designation		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Paskaring			

### Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging		
Container		
Special precautions	taken when Empty conta residues ma Do not cut, v	I and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. iners or liners may retain some product residues. Vapour from product y create a highly flammable or explosive atmosphere inside the container. veld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	Ш	Ш	
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Polyamide)	Not applicable.

### Additional information

ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre	equitions for

**14.6 Special precautions for : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO	: Not applicable.
instruments	

Code : 000001074765 Date of issue/Date of revision : 9 October 2024 SIGMAPRIME 700 HARDENER

### **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 authorisation

**Annex XIV** 

None of the components are listed.

### Substances of very high concern

Intrinsic property	Ingredient name	Status		Date of revision
₩PvB	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	Candidate	D(2023) 8585-DC	1/23/2024

: Not applicable. **Annex XVII - Restrictions** 

### on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

Other national and international regulations.

**Explosive precursors** : Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

### **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria** Category

	outegoly	
	P5c	
	E2	
15.	2 Chemical safety	: No Chemical Safety Assessment has been carried out.

assessment

: No Chemical Safety Assessment has been carried out.

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

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement
	PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 2, H411	Calculation method

#### Full text of abbreviated H statements

English (GB)

Code : 000001074765 SIGMAPRIME 700 HARDENE		Date of issue/Date of revision	: 9 October 2024
		·	
SECTION 16: Other i			
Full text of classifications : [CLP/GHS]	<ul> <li>H226 Flammable liq</li> <li>H302 Harmful if swa</li> <li>H304 May be fatal if</li> <li>H312 Harmful in cor</li> <li>H314 Causes severe</li> <li>H315 Causes skin ir</li> <li>H315 Causes skin ir</li> <li>H317 May cause an</li> <li>H318 Causes seriou</li> <li>H319 Causes seriou</li> <li>H319 Causes seriou</li> <li>H32 Harmful if inha</li> <li>H335 May cause dat</li> <li>H316 May cause dat</li> <li>H411 Toxic to aquat</li> <li>H412 Harmful to aquat</li> <li>H412 Harmful to aquat</li> <li>Acute Tox. 4</li> <li>Aquatic Chronic 2</li> <li>Aquatic Chronic 3</li> <li>Asp. Tox. 1</li> <li>Eye Dam. 1</li> <li>Eye Irrit. 2</li> <li>Flam. Liq. 2</li> <li>Flam. Liq. 3</li> </ul>	swallowed and enters airways. Itact with skin. e skin burns and eye damage. ritation. allergic skin reaction. Is eye damage. Is eye damage. Is eye irritation. aled. spiratory irritation. bwsiness or dizziness. mage to organs through prolonged or r ic life with long lasting effects. Jatic life with long lasting effects. ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUAT LONG-TERM (CHRONIC) AQUAT ASPIRATION HAZARD - Category SERIOUS EYE DAMAGE/EYE IRF SERIOUS EYE DAMAGE/EYE IRF FLAMMABLE LIQUIDS - Category FLAMMABLE LIQUIDS - Category	IC HAZARD - Category 2 IC HAZARD - Category 3 1 RITATION - Category 1 RITATION - Category 2 2 3
	Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOX EXPOSURE - Category 3	Category 1C Category 2 1 1A ICITY - REPEATED
<u>History</u>			
Date of issue/ Date of revision	: 9 October 2024		
Date of previous issue	: 17 April 2024		
Prepared by	: EHS		
Version	: 3		
Disclaimer			

### <u>Disclaimer</u>

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