

SAFETY DATA SHEET



PK5 PURGE TRAP 7, Part Number 5190-1445

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name : PK5 PURGE TRAP 7, Part Number 5190-1445
Part no. (chemical kit) : 5190-1445
Part no. : TENAX TA 60/80 (HT) I112510
CT WOOL-METHANOL I203650
WASHED
3% SP-2100 60/80 I202930
CHROM WAW

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
Purge trap
TENAX TA 60/80 (HT)
CT WOOL-METHANOL WASHED
3% SP-2100 60/80 CHROM WAW

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

Product definition : TENAX TA 60/80 (HT) Mono-constituent substance (encapsulated in article)
CT WOOL-METHANOL Mono-constituent substance (encapsulated in article)
WASHED
3% SP-2100 60/80 Mixture (encapsulated in article)
CHROM WAW

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

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SECTION 2: Hazards identification

VENAX TA 60/80 (HT)

H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

3% SP-2100 60/80 CHROM

WAW
H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

Ingredients of unknown toxicity : 3% SP-2100 60/80 CHROM WAW
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: > 60%
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: > 60%

Ingredients of unknown ecotoxicity : 3% SP-2100 60/80 CHROM WAW
Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 34%

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 : VENAX TA 60/80 (HT)



3% SP-2100 60/80 CHROM WAW



Signal word : VENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED
Warning
No signal word.
3% SP-2100 60/80 CHROM WAW
Danger

Hazard statements : VENAX TA 60/80 (HT) H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H335 - May cause respiratory irritation.
CT WOOL-METHANOL WASHED No known significant effects or critical hazards.
3% SP-2100 60/80 CHROM WAW H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : VENAX TA 60/80 (HT) P280 - Wear protective gloves. Wear eye or face protection.
P261 - Avoid breathing dust.
CT WOOL-METHANOL WASHED Not applicable.
3% SP-2100 60/80 CHROM WAW P260 - Do not breathe dust or mist.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

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SECTION 2: Hazards identification

Response	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Not applicable. P314 - Get medical attention if you feel unwell.
Storage	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	P405 - Store locked up. Not applicable. Not applicable.
Disposal	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: 3% SP-2100 60/80 CHROM WAW	- Kieselguhr, soda ash flux-calcined - cristobalite
Supplemental label elements	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not applicable. Not applicable. Not applicable.
Special packaging requirements		
Tactile warning of danger	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	None known. None known. None known.

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Mono-constituent substance (encapsulated in article) Mono-constituent substance (encapsulated in article) Mixture (encapsulated in article)
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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
ENAX TA 60/80 (HT) Poly(oxy[1,1':3',1"-terphenyl]-2',5'-diyl)-	CAS: 24938-68-9	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[A]
CT WOOL-METHANOL WASHED Glass, oxide, chemicals	EC: 266-046-0 CAS: 65997-17-3	100	Not classified.	[A]
3% SP-2100 60/80 CHROM WAW Kieselguhr, soda ash flux-calcined	EC: 272-489-0 CAS: 68855-54-9	≥50 - ≤75	STOT RE 1, H372 (lungs) (inhalation)	[1] [2]
crystalite	EC: 238-455-4 CAS: 14464-46-1	≥25 - ≤50	STOT RE 1, H372 (lungs) (inhalation)	[1] [2]
Siloxanes and Silicones, di-Me	CAS: 63148-62-9	≤5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the 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.

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
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: ENAX TA 60/80 (HT)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	CT WOOL-METHANOL WASHED	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	3% SP-2100 60/80 CHROM WAW	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
Inhalation	: ENAX TA 60/80 (HT)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a

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SECTION 4: First aid measures

	CT WOOL-METHANOL WASHED	collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	3% SP-2100 60/80 CHROM WAW	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: ENAX TA 60/80 (HT)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	CT WOOL-METHANOL WASHED	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	3% SP-2100 60/80 CHROM WAW	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: ENAX TA 60/80 (HT)	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	CT WOOL-METHANOL WASHED	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	3% SP-2100 60/80 CHROM WAW	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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SECTION 4: First aid measures

Protection of first-aiders	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	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. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Causes serious eye irritation. No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	May cause respiratory irritation. No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Adverse symptoms may include the following: pain or irritation watering redness No specific data. Adverse symptoms may include the following: irritation redness
Inhalation	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing

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SECTION 4: First aid measures

Skin contact	: TENAX TA 60/80 (HT)	Adverse symptoms may include the following: irritation redness
	CT WOOL-METHANOL WASHED	No specific data.
	3% SP-2100 60/80 CHROM WAW	No specific data.
Ingestion	: TENAX TA 60/80 (HT)	No specific data.
	CT WOOL-METHANOL WASHED	No specific data.
	3% SP-2100 60/80 CHROM WAW	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: TENAX TA 60/80 (HT)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	CT WOOL-METHANOL WASHED	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	3% SP-2100 60/80 CHROM WAW	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: TENAX TA 60/80 (HT)	No specific treatment.
	CT WOOL-METHANOL WASHED	No specific treatment.
	3% SP-2100 60/80 CHROM WAW	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: TENAX TA 60/80 (HT)	Use an extinguishing agent suitable for the surrounding fire.
	CT WOOL-METHANOL WASHED	Use an extinguishing agent suitable for the surrounding fire.
	3% SP-2100 60/80 CHROM WAW	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: TENAX TA 60/80 (HT)	None known.
	CT WOOL-METHANOL WASHED	None known.
	3% SP-2100 60/80 CHROM WAW	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: TENAX TA 60/80 (HT)	No specific fire or explosion hazard.
	CT WOOL-METHANOL WASHED	No specific fire or explosion hazard.
	3% SP-2100 60/80 CHROM WAW	No specific fire or explosion hazard.
Hazardous combustion products	: TENAX TA 60/80 (HT)	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	CT WOOL-METHANOL WASHED	Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides
	3% SP-2100 60/80 CHROM WAW	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

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SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special precautions for fire-fighters	: TENAX TA 60/80 (HT)	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.
	CT WOOL-METHANOL WASHED	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.
	3% SP-2100 60/80 CHROM WAW	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	: TENAX TA 60/80 (HT)	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.
	CT WOOL-METHANOL WASHED	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.
	3% SP-2100 60/80 CHROM WAW	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: TENAX TA 60/80 (HT)	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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	CT WOOL-METHANOL WASHED	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. Put on appropriate personal protective equipment.
	3% SP-2100 60/80 CHROM WAW	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. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: TENAX TA 60/80 (HT)	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".
	CT WOOL-METHANOL WASHED	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".
	3% SP-2100 60/80 CHROM WAW	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

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SECTION 6: Accidental release measures

unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : TENAX TA 60/80 (HT) 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).
- CT WOOL-METHANOL WASHED 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).
- 3% SP-2100 60/80 CHROM WAW 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).

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up** : TENAX TA 60/80 (HT) Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- CT WOOL-METHANOL WASHED Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
- 3% SP-2100 60/80 CHROM WAW Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

7.1 Precautions for safe handling

- Protective measures** : TENAX TA 60/80 (HT) Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- CT WOOL-METHANOL WASHED Put on appropriate personal protective equipment (see Section 8).
- 3% SP-2100 60/80 CHROM WAW Put on appropriate personal protective equipment (see Section 8). Do not breathe dust. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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SECTION 7: Handling and storage

Advice on general occupational hygiene

: TENAX TA 60/80 (HT)

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.

CT WOOL-METHANOL WASHED

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.

3% SP-2100 60/80 CHROM WAW

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

Storage

: TENAX TA 60/80 (HT)

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 locked up. 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.

CT WOOL-METHANOL WASHED

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. 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.

3% SP-2100 60/80 CHROM WAW

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. 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)

Recommendations

: TENAX TA 60/80 (HT)
CT WOOL-METHANOL WASHED
3% SP-2100 60/80
CHROM WAW

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

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SECTION 7: Handling and storage

Industrial sector specific solutions : TENAX TA 60/80 (HT) Not applicable.
CT WOOL-METHANOL WASHED Not applicable.
3% SP-2100 60/80 Not applicable.
CHROM WAW

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
CT WOOL-METHANOL WASHED Glass, oxide, chemicals	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 5 mg/m ³ 8 hours.
3% SP-2100 60/80 CHROM WAW Kieselguhr, soda ash flux-calcined cristobalite	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 6 mg/m ³ 8 hours. Form: inhalable dust TWA: 2.4 mg/m ³ 8 hours. Form: respirable dust EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.1 mg/m ³ 8 hours. Form: respirable dust

Recommended monitoring procedures : 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 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

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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 : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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SECTION 8: Exposure controls/personal protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- 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	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Solid. Solid. [Fibrous solid.] Solid. [Powder.]
Colour	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	White. Not available. White.
Odour	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Odour threshold	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
pH	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Melting point/freezing point	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. >500°C 1710°C

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SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. 2330°C
Flash point	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Evaporation rate	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Flammability (solid, gas)	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Upper/lower flammability or explosive limits	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Vapour pressure	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Vapour density	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Relative density	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. 2.4 to 3 2300 [Water = 1]
Solubility(ies)	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Insoluble in the following materials: cold water and hot water. Insoluble in the following materials: cold water and hot water. Not available.
Partition coefficient: n-octanol/water	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Auto-ignition temperature	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.

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SECTION 9: Physical and chemical properties

Decomposition temperature	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. >1000°C Not available.
Viscosity	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Explosive properties	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.
Oxidising properties	: TENAX TA 60/80 (HT) CT WOOL- METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Not available. Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: TENAX TA 60/80 (HT)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	CT WOOL-METHANOL WASHED	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	3% SP-2100 60/80	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	CHROM WAW	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

Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
3% SP-2100 60/80 CHROM WAW Siloxanes and Silicones, di-Me	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
TENAX TA 60/80 (HT) Poly(oxy[1,1':3',1''-terphenyl]-2',5'-diyl)-	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
3% SP-2100 60/80 CHROM WAW Kieselguhr, soda ash flux-calcined cristobalite	Category 1 Category 1	Inhalation Inhalation	lungs lungs

Aspiration hazard

Not available.

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SECTION 11: Toxicological information

Information on likely routes of exposure	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects		
Inhalation	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	May cause respiratory irritation. No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Ingestion	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Causes serious eye irritation. No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No specific data. No specific data. No specific data.
Skin contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Adverse symptoms may include the following: irritation redness No specific data. No specific data.
Eye contact	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	Adverse symptoms may include the following: pain or irritation watering redness No specific data. Adverse symptoms may include the following: irritation

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SECTION 11: Toxicological information

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.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED 3% SP-2100 60/80 CHROM WAW	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
TENAX TA 60/80 (HT) CT WOOL-METHANOL WASHED Glass, oxide, chemicals	Acute LC50 >1000 mg/l	Fish	96 hours
3% SP-2100 60/80 CHROM WAW Kieselguhr, soda ash flux- calcined	LC50 140 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

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SECTION 12: Ecological information

Siloxanes and Silicones, di-Me	Acute LC50 44.5 ppm Fresh water	Daphnia - Daphnia magna - Instar	48 hours
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12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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 : 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 minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

ADR/RID / IMDG / IATA : Not regulated.

14.6 Special precautions for user : **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.

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SECTION 14: Transport information

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

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

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :
ENAX TA 60/80 (HT) Not applicable.
CT WOOL-METHANOL Not applicable.
WASHED
3% SP-2100 60/80 CHROM Not applicable.
WAW

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.
Canada : Not determined.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : **Japan inventory (ENCS)**: All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
Malaysia : All components are listed or exempted.
New Zealand : All components are listed or exempted.
Philippines : Not determined.
Republic of Korea : Not determined.

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SECTION 15: Regulatory information

Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: <input checked="" type="checkbox"/> All components are listed or exempted.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.


15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

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
 TENAX TA 60/80 (HT) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Expert judgment Expert judgment Expert judgment
3% SP-2100 60/80 CHROM WAW STOT RE 1, H372	Calculation method

Full text of abbreviated H statements

 TENAX TA 60/80 (HT) H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
3% SP-2100 60/80 CHROM WAW H319 H372 (inhalation) H372 H412	Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure if inhaled. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

 TENAX TA 60/80 (HT) Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
3% SP-2100 60/80 CHROM WAW Aquatic Chronic 3, H412 Eye Irrit. 2, H319 STOT RE 1, H372 (inhalation) STOT RE 1, H372	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1

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SECTION 16: Other information

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