

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 17/07/2017 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Custom SV Appendix IX Mix

Product code : AL0-130126
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Laboratory use Industrial/Professional use spec : Industrial

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Carc. 2 H351 Aquatic Chronic 3 H412

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.3; R40 N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

Signal word (CLP) : Warning

Hazard statements (CLP) : H351 - Suspected of causing cancer

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment

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

P308+P313 - IF exposed or concerned: Get medical advice/attention

P403+P235 - Store in a well-ventilated place. Keep cool

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

: EUH208 - Contains atrazine(1912-24-9). May produce an allergic reaction

EUH-statements

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3	98.6	Carc. 2, H351
atrazine (Component)	(CAS-No.) 1912-24-9 (EC-No.) 217-617-8 (EC Index-No.) 613-068-00-7	0.2	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
caprolactam (Component) substance with a Community workplace exposure limit	(CAS-No.) 105-60-2 (EC-No.) 203-313-2 (EC Index-No.) 613-069-00-2	0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
1,2,4,5-tetrachlorobenzene (Component)	(CAS-No.) 95-94-3 (EC-No.) 202-466-2	0.2	Aquatic Chronic 2, H411
2,3,4,6-tetrachlorophenol (Component)	(CAS-No.) 58-90-2 (EC-No.) 200-402-8 (EC Index-No.) 604-013-00-8	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
Name	Product identifier	Specific	concentration limits
2,3,4,6-tetrachlorophenol (Component)	(CAS-No.) 58-90-2 (EC-No.) 200-402-8 (EC Index-No.) 604-013-00-8		kin Irrit. 2, H315 ve Irrit. 2, H319

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedur

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

: Ventilate area. **Emergency procedures**

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated Hygiene measures

clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated

place. Keep away from any flames or sparking source

Incompatible materials : Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety

alasses







Hand protection Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.

: Chemical goggles or safety glasses. Safety glasses.

Eye protection

Skin and body protection Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin

Respiratory protection Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical propertic

Physical state : Liquid Colour : Colourless. Odour : characteristic. pН : No data available Melting point : No data available Freezing point : No data available

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: No data available Boiling point Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : Non flammable Relative density : No data available Solubility : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

atrazine (1912-24-9)	
LD50 oral rat	672 mg/kg (Rat)
LD50 dermal rat	7500 mg/kg (Rat)
LC50 inhalation rat (mg/l)	5.2 mg/l/4h (Rat)
ATE CLP (oral)	672 mg/kg bodyweight
ATE CLP (dermal)	7500 mg/kg bodyweight
ATE CLP (vapours)	5.2 mg/l/4h
ATE CLP (dust,mist)	5.2 mg/l/4h

caprolactam (105-60-2)		
LD50 oral rat	1210 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 1475 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Experimental value; 1876 mg/kg bodyweight; Rat)	
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; Other)	
LD50 dermal rabbit	1438 mg/kg (Rabbit)	
ATE CLP (oral)	1210 mg/kg bodyweight	
ATE CLP (dermal)	1438 mg/kg bodyweight	
ATE CLP (gases)	4500 ppmv/4h	
ATE CLP (vapours)	11 mg/l/4h	
ATE CLP (dust,mist)	1.5 mg/l/4h	

1,2,4,5-tetrachlorobenzene (95-94-3)	
LD50 oral rat	3105 mg/kg (Rat)
ATE CLP (oral)	3105 mg/kg bodyweight

2,3,4,6-tetrachlorophenol (58-90-2)	
LD50 oral rat	140 mg/kg (Rat)
LD50 dermal rat	485 mg/kg (Rat)
ATE CLP (oral)	140 mg/kg bodyweight
ATE CLP (dermal)	485 mg/kg bodyweight

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Methylene Chloride (75-09-2)	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
	Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
·	Based on available data, the classification criteria are not met
Potential adverse human health effects and	Based on available data, the classification criteria are not met.
	•

SECTION 12: Ecological information

12.1. Toxicity

symptoms

atrazine (1912-24-9)		
EC50 Daphnia 1	36.5 mg/l (EC50; 48 h)	
LC50 fish 2	4.5 - 8.8 mg/l (LC50; 96 h)	
caprolactam (105-60-2)		
EC50 Daphnia 1	> 1000 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 2	> 1000 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)	
2,3,4,6-tetrachlorophenol (58-90-2)		
LC50 fish 1	0.14 mg/l (LC50; 96 h; Lepomis macrochirus)	
EC50 Daphnia 1	0.01 mg/l (EC50; 48 h)	
Threshold limit algae 2	1.3 mg/l (EC50; 96 h)	
Methylene Chloride (75-09-2)		
LC50 fish 1	193 mg/l (LC50; 96 h; Pimephales promelas)	
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)	

12.2. Persistence and degradability

Custom SV Appendix IX Mix		
Persistence and degradability	Not established.	
atrazine (1912-24-9)		
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.	
caprolactam (105-60-2)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 g O□ /g substance (20 D)	
Chemical oxygen demand (COD)	0.03 g O□ /g substance (KMnO4)	
1,2,4,5-tetrachlorobenzene (95-94-3)		
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.	
2,3,4,6-tetrachlorophenol (58-90-2)		
Persistence and degradability Not readily biodegradable in water. Non degradable in the soil.		

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	Methylene Chloride (75-09-2)	
	Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.
1	2.3. Bioaccumulative potential	
	Custom SV Appendix IX Mix	
	Bioaccumulative potential	Not established.
	atrazine (1912-24-9)	
	BCF fish 1	3 - 4 (BCF)
	BCF fish 2	3 - 10 (BCF)
	BCF other aquatic organisms 1	52 (BCF; 24 h)
	BCF other aquatic organisms 2	10 - 83 (BCF)
	Log Pow	2.64
	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
	caprolactam (105-60-2)	
	BCF other aquatic organisms 1	< 1 (BCF; Other)
	Log Pow	0.12 (Experimental value; Equivalent or similar to OECD 107; 25 °C)
	Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
	·	Low potential for bloaccumulation (Log Now < 4).
	1,2,4,5-tetrachlorobenzene (95-94-3)	10000 (P.O.E.)
	BCF fish 1	13000 (BCF)
	BCF fish 2	1650 - 4830 (BCF)
	BCF other aquatic organisms 1	> 5012 (BCF)
	Log Pow	4.5 - 4.98
	Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
	2,3,4,6-tetrachlorophenol (58-90-2)	
	BCF fish 1	200 (BCF; 24 h)
	BCF fish 2	93 (BCF; 24 h)
	Log Pow	4.1 - 4.8
	Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).
	Methylene Chloride (75-09-2)	
	BCF fish 1	2 - 40 (BCF)
	Log Pow	1.25 (Experimental value)
	Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
1	2.4. Mobility in soil	
	atrazine (1912-24-9)	
	Ecology - soil	Toyin to flore. Not toyin to hoop
		Toxic to flora. Not toxic to bees.
	caprolactam (105-60-2)	
	Log Koc	log Koc,Other; 1.76; Calculated value
	Methylene Chloride (75-09-2)	
	Surface tension	0.028 N/m (20 °C)
	Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
1	2.5. Results of PBT and vPvB assessment	
N	lo additional information available	
	2.6 Othor advance effects	
_	2.6. Other adverse effects	
	Additional information :	Avoid release to the environment
S	ECTION 13: Disposal considerations	
_	3.1. Waste treatment methods	
		Diapage in a cafe manner in accordance with legal/national regulations
		Dispose in a safe manner in accordance with local/national regulations.
	Ecology - waste materials :	Avoid release to the environment.
S	ECTION 14: Transport information	
	accordance with ADR / RID / IMDG / IATA / ADN	
_	4.1. UN number	
		2810
	• • •	2810
	UN-No. (IATA) :	
	UN-No. (IMDG) :	2810
	UN-No. (ADN)	2810
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14.2.	proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.

Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.

Proper Shipping Name (ADN) : TOXIC LIQUID, ORGANIC, N.O.S.

Transport document description (ADR) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E)

14.3. Packing group

 Class (ADR)
 : 6.1

 Classification code (ADR)
 : T1

 Class (IATA)
 : 6.1

 Class (IMDG)
 : 6.1

 Class (ADN)
 : 6.1

 Classification code (ADN)
 : T1

 Danger labels (ADR)
 : 6.1



Division (IATA) : 6.1 Hazard labels (IATA) : 6.1



Danger labels (IMDG) : 6.1



Danger labels (ADN) : 6.1



14.4. Packing group

Packing group (ADR) : III
Packing group (IATA) : III
Packing group (IMDG) : III
Packing group (ADN) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60 Classification code (ADR) : T1

Orange plates :

60 2810

Special provisions (ADR) : 274, 614

Transport category (ADR) : 2
Tunnel restriction code (ADR) : E
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

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14.6.2. Transport by sea

Special provisions (IMDG) : 223, 274

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
Stowage category (IMDG) : A

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

14.6.3. Air transport

CAO packing instructions (IATA) : 663
CAO max net quantity (IATA) : 220L
PCA packing instructions (IATA) : 655
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net quantity (IATA) : 2L
PCA max net quantity (IATA) : 60L
PCA Excepted quantities (IATA) : E1

Special provisions (IATA) : A3, A4, A137

ERG code (IATA) : 6L

14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 614, 802

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02
Number of blue cones/lights (ADN) : 0
Carriage prohibited (ADN) : No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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