

Safety Data Sheet

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

1.1. Product identifier

Product form : Mixture

Product name : 525.2 Internal Standard

Product code : AL0-101526
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]

Flam. Liq. 2 H225 Eye Irrit. 2 H319 Carc. 1A H350 STOT SE 3 H336

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

F; R11 Xi; R36 R66

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02





GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : Chrysene-d12; acetone

Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

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H350 - May cause cancer

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention

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

EUH phrases : EUH066 - Repeated exposure may cause skin dryness or cracking

No labeling applicable

# Other hazards

No additional information available

# SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone (Component)	(CAS No) 67-64-1 (EC no) 200-662-2 (EC index no) 606-001-00-8	99.7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Acenaphthene-d10 (Component)	(CAS No) 15067-26-2	0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Chrysene-d12 (Component)	(CAS No) 1719-03-5 (EC index no) 601-048-00-0	0.1	Muta. 2, H341 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phenanthrene-d10 (Component)	(CAS No) 1517-22-2	0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 4, H413

# SECTION 4: First aid measures

### 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 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

Repeated exposure may cause skin dryness or cracking.

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

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/injuries after inhalation : May cause cancer by inhalation. May cause drowsiness or dizziness.

#### 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.

#### Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

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Explosion hazard : May form flammable/explosive vapor-air mixture.

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 environment.

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

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.

**Emergency procedures** : Ventilate area.

#### Environmental precautions

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

### 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

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

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

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.

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

clothing. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities

Technical measures Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment.

Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a Storage conditions

well-ventilated place. Keep away from any flames or sparking source.

Incompatible materials Direct sunlight. Heat sources.

# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### Control parameters

Chrysene-d12 (1719-03-5)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.2 mg/m³

### Phenanthrene-d10 (1517-22-2)

**USA OSHA** OSHA PEL (TWA) (mg/m3) 0.2 mg/m<sup>3</sup>

### 8.2. Exposure controls

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

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

alasses



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

penetration.

Eye protection Chemical goggles or safety glasses. Safety glasses.

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

contact.

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Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

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

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless. Odor characteristic. рΗ No data available No data available Melting point Freezing point : No data available **Boiling point** : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Relative density : No data available Solubility : No data available Explosive properties : No data available Oxidizing properties : No data available Explosion 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

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

May release flammable gases.

Phononthrono-d10 (1517-22-2)

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

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Phenanthrene-d10 (1517-22-2)	
ATE CLP (oral)	500.000 mg/kg body weight
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg bodyweight; Rabbit; Weight of evidence)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
ATE CLP (oral)	5800.000 mg/kg body weight
ATE CLP (dermal)	20000.000 mg/kg body weight
ATE CLP (gases)	30000.000 ppmV/4h
ATE CLP (vapors)	71.000 mg/l/4h
ATE CLP (dust, mist)	71.000 mg/l/4h

Skin corrosion/irritation : Not classified

Repeated exposure may cause skin dryness or cracking

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Serious eye damage/irritation : Causes serious eye irritation.

Based on available data, the classification criteria are not met

Respiratory or skin sensitization : 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 : May cause cancer.

May cause cancer

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) :

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

(repeated : Not classified

exposure)

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

symptoms

Based on available data, the classification criteria are not met.

# SECTION 12: Ecological information

#### 12.1. Toxicity

acetone (67-64-1)	
LC50 fish 2	5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

### 12.2. Persistence and degradability

525.2 Internal Standard		
Persistence and degradability	Not established.	
acetone (67-64-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	1.43 g O /g substance	
Chemical oxygen demand (COD)	1.92 g O /g substance	
ThOD	2.20 g O /g substance	
BOD (% of ThOD)	0.872 (20 days; Literature study)	

### 12.3. Bioaccumulative potential

525.2 Internal Standard	
Bioaccumulative potential	Not established.
acetone (67-64-1)	
BCF fish 1	0.69 (BCF)
BCF other aquatic organisms 1	3 (BCF; BCFWIN)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative

### 12.4. Mobility in soil

acetone (67-64-1)	
Surface tension	0.0237 N/m

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

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### SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1993 UN-No.(IATA) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IATA) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (FLAMMABLE LIQUID, N.O.S.), 3, II, (D/E)

14.3. Packing group

Class (ADR) : 3
Classification code (ADR) : F1
Class (IATA) : 3
Hazard labels (ADR) : 3



Hazard labels (IATA) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IATA) : II

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.) : 33 Classification code (ADR) : F1

Orange plates :

33 1993

Special provision (ADR) : 274, 601, 640D

Transport category (ADR) : 2
Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
Excepted quantities (ADR) : E2

### 14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L : 353 PCA packing instructions (IATA) PCA Limited quantities (IATA) : Y341 : 1L PCA limited quantity max net quantity (IATA) PCA max net quantity (IATA) : 5L PCA Excepted quantities (IATA) : E2 : 3H ERG code (IATA)

14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

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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 substances with Annex XVII restrictions

Contains no REACH candidate substance

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, labeling 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.

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