Reviewed on 04/21/2016

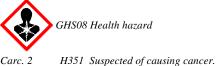
Page 1/7

1 Identification

- · Product identifier
- · Product Name: <u>5-Methylchrysene</u>
- · Part Number: S-4811
- · Application of the substance / the mixture Certified Reference Material
- \cdot Details of the supplier of the safety data sheet · Manufacturer/Supplier: SPEX CertiPrep, LLC. 203 Norcross Ave, Metuchen, NJ 08840 USA
- · Information department: product safety department · Emergency telephone number: Emergency Phone Number (24 hours) CHEMTREC (800-424-9300) Outside US: 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 2



Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labeling: dichloromethane
- · Hazard statements
- Harmful if swallowed.
- Suspected of causing cancer.
- Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection.
- Wash thoroughly after handling.
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



(Contd. on page 2)

US

Safety Data Sheet acc. to OSHA HCS

Printing date 04/21/2016

Product Name: 5-Methylchrysene

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

75-09-2 dichloromethane

3697-24-3 5-Methylchrysene

4 First-aid measures

· Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for Doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- · Reference to other sections See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

(Contd. on page 3)

(Contd. of page 1)

99.9%

0.1%

Product Name: 5-Methylchrysene

Reviewed on 04/21/2016

(Contd. of page 2)

Aaai	itional information about design of technical systems: No further data; see item 7.
Con	trol parameters
	ponents with limit values that require monitoring at the workplace:
	9-2 dichloromethane
REL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052 See Pocket Guide App. A Long-term value: 174 mg/m ³ , 50 ppm
	BEI
	edients with biological limit values:
	9-2 dichloromethane
	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)
Addi	itional information: The lists that were valid during the creation were used as basis.
Wash Brea In co inde	o away from foodstuffs, beverages and feed. h hands before breaks and at the end of work. at hing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that pendent of circulating air. ection of hands:
The	Protective gloves glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due Selec Mate The manu there Pene The	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erail of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer ufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and h efore to be checked prior to the application. Extration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. protection: Safety glasses
	sical and chemical properties

Form: Color: • Odor: • Odour Threshold:	Liquid According to product specification Characteristic Not applicable.	
· pH-value:	Not applicable.	
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 40 °C (104 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	605 °C (1121 °F)	
		(Contd on page 4)

(Contd. on page 4) US Printing date 04/21/2016

Reviewed on 04/21/2016

Product Name: 5-Methylchrysene

	(Contd. of page 3
· Decomposition temperature:	Not applicable.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	13.0 Vol % 22.0 Vol %
· Vapor pressure at 20 °C (68 °F):	453 hPa (340 mm Hg)
• Density at 20 °C (68 °F) • Relative density • Vapor density • Evaporation rate	0.78921 g/cm ³ (6.586 lbs/gal) Not applicable. Not applicable. Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	pr): Not applicable.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Solvent content: Organic solvents:	99.9 %
Solids content: • Other information	0.1 % No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

• Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Acute toxi	city:	ological effects	
· LD/LC50	values that	are relevant for classification:	
75-09-2 di	chlorometh	ane	
Oral	Oral LD50 1600 mg/kg (rat)		
Inhalative	LC50/4 h	88 mg/l (rat)	
Primary in	ritant effec	t:	
	n: No irrita		
on the eve	: No irritat	ing effect.	
		sitizing effects known.	
Additiona	l toxicologi		d calculation methods for preparations
	-	cal information: The product shows the following dangers according to internally approved	d calculation methods for preparation.
	-	cal information: The product shows the following dangers according to internally approved	d calculation methods for preparation:
· Carcinoge	nic catego	cal information: The product shows the following dangers according to internally approved	d calculation methods for preparation:
· Carcinoge · IARC (Int	nic catego	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer)	d calculation methods for preparation:
• Carcinoge • IARC (Int 75-09-2	nic categor ernational	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer) ethane	
• Carcinoge • IARC (Int 75-09-2 3697-24-3	nic categor ernational dichlorom 5-Methylc	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer) ethane	21
• Carcinoge • IARC (Int 75-09-2 3697-24-3 • NTP (Nat	nic categor ernational dichlorom 5-Methylc	cal information: The product shows the following dangers according to internally approved ries Agency for Research on Cancer) Methane hrysene ology Program)	21
• Carcinoge • IARC (Int 75-09-2 3697-24-3 • NTP (Nat 75-09-2	nic categor ernational dichloron 5-Methylc	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer) tethane hrysene ology Program) tethane	2.
• Carcinoge • IARC (Int 75-09-2 3697-24-3 • NTP (Nata 75-09-2 3697-24-3	nic catego ernational dichloron 5-Methylc conal Toxic dichloron 5-Methylc	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer) tethane hrysene ology Program) tethane	2
• Carcinoge • IARC (Int 75-09-2 3697-24-3 • NTP (Nat 75-09-2 3697-24-3 • OSHA-Ca	nic catego ernational dichloron 5-Methylc conal Toxic dichloron 5-Methylc	cal information: The product shows the following dangers according to internally approved ies Agency for Research on Cancer) tethane hrysene ology Program) tethane hrysene onal Safety & Health Administration)	2.

(Contd. on page 5)

Product Name: 5-Methylchrysene

(Contd. of page 4)

Reviewed on 04/21/2016

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- $\cdot \textit{Other adverse effects}$ No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1593
· UN proper shipping name · DOT, IATA · ADR · IMDG	Dichloromethane 1593 Dichloromethane DICHLOROMETHANE
· Transport hazard class(es)	
·DOT	
TOXIC 6	
· Class	6.1 Toxic substances
·Label	6.1
· ADR, IMDG, IATA	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, ADR, IMDG, IATA	111
· Environmental hazards:	Not applicable.
 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups Stowage Category 	Warning: Toxic substances 60 F-A,S-A Liquid halogenated hydrocarbons A
• Transport in bulk according to Annex II of MARPOL73/78 and the I Code	BC Not applicable.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Printing date 04/21/2016

Reviewed on 04/21/2016

Product Name: 5-Methylchrysene

	(Contd. of page)
· Transport/Additional information:	
· ADR	
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
All ingredients are listed.	
TSCA (Toxic Substances Control Act):	
75-09-2 dichloromethane	
Proposition 65	
Chemicals known to cause cancer:	
All ingredients are listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
75-09-2 dichloromethane	
TLV (Threshold Limit Value established by ACGIH)	
75-09-2 dichloromethane	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

· Hazard pictograms



· Signal word Warning

- · Hazard-determining components of labeling:
- dichloromethane
- · Hazard statements
- Harmful if swallowed.
- Suspected of causing cancer.
- · Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

US

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Printing date 04/21/2016

Product Name: 5-Methylchrysene

Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Reviewed on 04/21/2016

(Contd. of page 6)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: product safety department

- · Contact:
- SPEX CertiPrep, LLC. 1-732-549-7144
- · Date of preparation / last revision 04/21/2016 / -
- · Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit BEI: Biological Exposure Limit
- Acute Tox. 4: Acute toxicity, Hazard Category 4 Carc. 2: Carcinogenicity, Hazard Category 2