

# SAFETY DATA SHEET

#### 1. Identification

Product identifier	Chrysene-d12 Solution	
Other means of identification		
Item	S-11467X5	
Recommended use	For Laboratory Use Only	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Chem Service, Inc.	
Address	660 Tower Lane	
	West Chester, PA 19380	
	United States	
Telephone	Toll Free	800-452-9994
	Direct	610-692-3026
Website	www.chemservice.com	
E-mail	info@chemservice.com	
Emergency phone number	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	0.2% of the mixture consists of component(s) of unknown acute oral toxicity.

#### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Methylene chloride	DICHLOROMETHANE; METHYLENE DICHLORIDE	75-09-2	>99
Chrysene-d12		1719-03-5	0.2

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures
Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of

#### low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe protective equipment and mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate emergency procedures protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Methods and materials for Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth containment and cleaning up and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and storage Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate

Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate<br/>ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene<br/>practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.Conditions for safe storage,<br/>including any incompatibilitiesStore locked up. Store in original tightly closed container. Refrigeration recommended. Store away<br/>from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US. OSHA Specifically Re Components	Тур	e	Va	lue
Methylene chloride (CAS 75-09-2)	STE	E	12	5 ppm
	TWA	4	25	ppm
US. ACGIH Threshold Lin	nit Values			
Components	Тур	e	Va	lue
Methylene chloride (CAS 75-09-2)	TW	4	50	ppm
iological limit values				
ACGIH Biological Exposu	ire Indices			
Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichlorometha ne	Urine	*
* - For sampling details, ple	ease see the source doo	cument.		
ppropriate engineering ontrols	should be matched or other engineerin exposure limits hav	d to conditions. If app ng controls to mainta ve not been establis	olicable, use pro in airborne level hed, maintain air	nour) should be used. Ventilation rates cess enclosures, local exhaust ventilatior s below recommended exposure limits. If rborne levels to an acceptable level. Eye le when handling this product.
dividual protection measure	es, such as personal p	protective equipme	nt	
Eye/face protection	Wear safety glasse	es with side shields (	or goggles).	
Skin protection				
Hand protection	Wear appropriate of	chemical resistant gl	oves.	
Other	Wear appropriate of	chemical resistant cl	othing.	
Respiratory protection	In case of insufficie	ent ventilation, wear	suitable respirat	ory equipment.
Thermal hazards	Wear appropriate t	hermal protective cl	othing, when nee	cessary.
eneral hygiene onsiderations	0,	,	,	ve good personal hygiene measures, such ng, drinking, and/or smoking. Routinely

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-139 °F (-95 °C) estimated
Initial boiling point and boiling range	103.55 °F (39.75 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	15.5 % estimated
Flammability limit - upper (%)	66.4 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	579.97 hPa estimated
Vapor density	Not available.
Relative density	Not available.

Material name: Chrysene-d12 Solution

Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	1033 °F (556.11 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.3254 g/cm3 estimated
Percent volatile	99.8 % estimated
Specific gravity	1.33 estimated
VOC (Weight %)	99.8 % estimated

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

Acute toxicity	Harmful if swallowed.	
Components	Species	Test Results
Methylene chloride (CAS 7	5-09-2)	
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Guinea pig	11600 ppm, 6 Hours
		40.2 mg/l, 6 Hours
	Mouse	14400 ppm, 7 Hours
		51.5 mg/l, 2 Hours
		49.1 mg/l, 6 Hours
		49 mg/l, 7 Hours
	Rat	2000 mg/l, 15 Minutes
		88 mg/l, 900 Days
		79 mg/l, 2 Hours
		52 mg/l, 6 Hours
LD50	Mouse	16000 ppm, 7 Hours
Oral		
LD50	Rat	1600 mg/kg
2000		

Components	Species	7	Test Results
Other			
LD50	Mouse	2	137 mg/kg
* Estimates for product may	be based on addit	tional component data not shown.	
kin corrosion/irritation	Causes skin irr	·	
erious eye damage/eye ritation	Causes serious	s eye irritation.	
Respiratory or skin sensitization	Nn.		
Respiratory sensitization	Not available.		
Skin sensitization		not expected to cause skin sensitization	
Germ cell mutagenicity	-	ble to indicate product or any component	
Carcinogenicity		causing cancer.	
IARC Monographs. Overall	·	·	
Methylene chloride (CAS		2B Possibly carcinogen	ic to humans.
US. National Toxicology Pr			
Methylene chloride (CAS	,		to be a Human Carcinogen.
		es (29 CFR 1910.1001-1050)	
Methylene chloride (CAS		Cancer	
Reproductive toxicity	•	not expected to cause reproductive or d	evelopmental effects.
pecific target organ toxicity - ingle exposure	Not classified.		
Specific target organ toxicity - epeated exposure	May cause dar	mage to organs through prolonged or rep	eated exposure.
spiration hazard	Not available.		
	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause		
2. Ecological informatio	damage to org. <b>n</b>	ans through prolonged or repeated expo	sure.
12. Ecological informatio	damage to org <b>n</b> The product is	not classified as environmentally hazard large or frequent spills can have a harmf	sure. ous. However, this does not exclude the
12. Ecological informatio Ecotoxicity Components	damage to org <b>n</b> The product is possibility that	not classified as environmentally hazard	sure. ous. However, this does not exclude the ul or damaging effect on the environmen
I2. Ecological informatio	damage to org <b>n</b> The product is possibility that	not classified as environmentally hazard large or frequent spills can have a harmf	sure. ous. However, this does not exclude the ul or damaging effect on the environmer
2. Ecological informatio cotoxicity Components	damage to org <b>n</b> The product is possibility that	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b>	sure. ous. However, this does not exclude the ul or damaging effect on the environmen
12. Ecological informatio Ecotoxicity Components Methylene chloride (CAS 75- Aquatic	damage to org <b>n</b> The product is possibility that -09-2)	not classified as environmentally hazard large or frequent spills can have a harmf	sure. ous. However, this does not exclude the ul or damaging effect on the environmer <b>Test Results</b> 1250 mg/l, 48 hours
I2. Ecological informatio Ecotoxicity Components Methylene chloride (CAS 75- Aquatic Crustacea Fish	damage to org n The product is possibility that -09-2) EC50 LC50	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b> Water flea (Daphnia magna) Fathead minnow (Pimephales promelas	sure. ous. However, this does not exclude the ul or damaging effect on the environmen <b>Test Results</b> 1250 mg/l, 48 hours
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12. Ecological informatio Ecotoxicity Components Methylene chloride (CAS 75- Aquatic Crustacea Fish * Estimates for product may	damage to org <b>n</b> The product is possibility that 09-2) EC50 LC50 be based on addit	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b> Water flea (Daphnia magna) Fathead minnow (Pimephales promelas	sure. ous. However, this does not exclude the ul or damaging effect on the environmen <b>Test Results</b> 1250 mg/l, 48 hours ) 140.8 - 277.8 mg/l, 96 hours
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12. Ecological informatio Ecotoxicity Components Methylene chloride (CAS 75- Aquatic Crustacea Fish * Estimates for product may Persistence and degradability Bioaccumulative potential Partition coefficient n-octa Methylene chloride	damage to org n The product is possibility that 09-2) EC50 LC50 be based on addit No data is avai No data availal	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b> Water flea (Daphnia magna) Fathead minnow (Pimephales promelas tional component data not shown. ilable on the degradability of this product. ble. <b>Cow)</b> 1.25	sure. ous. However, this does not exclude the ul or damaging effect on the environmen <b>Test Results</b> 1250 mg/l, 48 hours ) 140.8 - 277.8 mg/l, 96 hours
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12. Ecological informatio     Ecotoxicity     Components     Methylene chloride (CAS 75- Aquatic     Crustacea     Fish     * Estimates for product may Persistence and degradability Bioaccumulative potential     Partition coefficient n-octa     Methylene chloride Mobility in soil Other adverse effects	damage to org n The product is possibility that -09-2) EC50 LC50 be based on addit No data is avai No data availal nol / water (log K No data availal No data availal No data availal No data availal No data availal No other adver potential, endo	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b> Water flea (Daphnia magna) Fathead minnow (Pimephales promelas tional component data not shown. ilable on the degradability of this product ble. <b>Cow)</b> 1.25 ble. rse environmental effects (e.g. ozone deg	sure. bus. However, this does not exclude the ul or damaging effect on the environme <b>Test Results</b> 1250 mg/l, 48 hours ) 140.8 - 277.8 mg/l, 96 hours bletion, photochemical ozone creation
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12. Ecological informatio Ecotoxicity Components Methylene chloride (CAS 75- Aquatic Crustacea Fish * Estimates for product may Persistence and degradability Bioaccumulative potential Partition coefficient n-octa Methylene chloride Mobility in soil Other adverse effects 13. Disposal consideratio Disposal instructions	damage to org n The product is possibility that -09-2) EC50 LC50 be based on addit No data is availan No data availan No data availan No data availan No data availan No data availan No data availan Collect and rec and its contain sewers/water se container. Disp regulations. Dispose in acc	not classified as environmentally hazard large or frequent spills can have a harmf <b>Species</b> Water flea (Daphnia magna) Fathead minnow (Pimephales promelas tional component data not shown. ilable on the degradability of this product ble. <b>Kow)</b> 1.25 ble. rse environmental effects (e.g. ozone dep ocrine disruption, global warming potentia claim or dispose in sealed containers at li er must be disposed of as hazardous wa supplies. Do not contaminate ponds, wate oose of contents/container in accordance cordance with all applicable regulations. le should be assigned in discussion between the statement of the search of the second	sure. Sure. Sure. Sure. However, this does not exclude the ul or damaging effect on the environment <b>Test Results</b> 1250 mg/l, 48 hours         1250 mg/l, 48 hours         140.8 - 277.8 mg/l, 96 hours         Deletion, photochemical ozone creation I) are expected from this component.         censed waste disposal site. This materiate. Do not allow this material to drain in the environment.         censed waste disposal site. This materiate. The materiate or used with local/regional/national/international
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Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# 14. Transport information

DOT	
UN number	UN1593
UN proper shipping name	Dichloromethane, solution
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Packing group	III
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, IP8, N36, T7, TP2
Packaging exceptions	153
Packaging non bulk	203
Packaging bulk	241
ΙΑΤΑ	
UN number	UN1593
UN proper shipping name	Dichloromethane solution
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	
Environmental hazards	No.
ERG Code	6L
· ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	Allowed
Cargo aircraft only IMDG	Allowed.
	1114500
UN number	
UN proper shipping name	DICHLOROMETHANE SOLUTION
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	11
Environmental hazards	N.
Marine pollutant	No.
EmS	F-A, S-A
Transport in bulk according to	Read safety instructions, SDS and emergency procedures before handling. Not available.
Annex II of MARPOL 73/78 and	ויטן מימוומטוכ.
the IBC Code	
DOT	





#### 15. Regulatory information **US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Methylene chloride (CAS 75-09-2) Listed. SARA 304 Emergency release notification Not regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Methylene chloride (CAS 75-09-2) Cancer Heart Central nervous system Liver Skin irritation Eye irritation Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes **Hazard categories** Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) **Chemical name CAS** number % by wt. Methylene chloride 75-09-2 >99 Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Methylene chloride (CAS 75-09-2) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) **US state regulations US. Massachusetts RTK - Substance List** Methylene chloride (CAS 75-09-2) US. New Jersey Worker and Community Right-to-Know Act Methylene chloride (CAS 75-09-2) 500 LBS US. Pennsylvania RTK - Hazardous Substances Methylene chloride (CAS 75-09-2) **US. Rhode Island RTK** Methylene chloride (CAS 75-09-2) **US. California Proposition 65** WARNING: This product contains a chemical known to the State of California to cause cancer. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Methylene chloride (CAS 75-09-2) Listed: April 1, 1988

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	08-30-2014
Version #	01
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
Disclaimer	The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
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