# Lawson Screen & Digital Products, Inc.

# SAFETY DATA SHEET

Revision Date May 2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Methylene Chloride

195-8301

CAS-No. : 75-09-2

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

Identified uses : Manufacture of substances, Coatings, Cleaning Agents

1.3 Details of the supplier of the safety data sheet

Company : Lawson Screen & Digital Products

5110 Penrose St. St. Louis, MO 63115

Telephone : 314-382-9300

1.4 Emergency telephone number

Emergency Phone # : Chemtrec 24 hrs. (800) 424-9300

2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336

Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Blood, H373

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

H373 May cause damage to organs (Liver, Blood) through prolonged or

way cause darriage to organis (Liver, Blood) through prolonged of

repeated exposure if swallowed.

H373 May cause damage to organs (Central nervous system) through

prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear eve protection/ face protection.

P280 Wear protective gloves.

P281 Use personal protective equipment as required. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or doctor/ physician if

vou feel unwell.

P305 + P351 + P338 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. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

P308 + P313 P332 + P313

P337 + P313

Synonyms : Methylene chloride

DCM

Formula : CH<sub>2</sub>Cl<sub>2</sub>
Molecular weight : 84.93 g/mol
CAS-No. : 75-09-2

**Hazardous components** 

Component	Classification	Concentration
Methylene chloride		
	Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; STOT RE 2; H315, H319, H335, H336, H351, H373, H373	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### 5.4 Further information

No data available

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Heat sensitive. Store under inert gas.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	
	Remarks	Potential Occupational Carcinogen		
		See Appendix A		

Methylene chloride	75-09-2	TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Central Nervous System impairment Carboxyhemoglobinemia Substances for which there is a Biological Exposure Index or Indices Confirmed animal carcinogen with unknown relevance to humans			
		TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)	
		Central Nervous System impairment Carboxyhemoglobinemia Substances for which there is a Biological Exposure Index or Indi Confirmed animal carcinogen with unknown relevance to humans			
		Substance listed; for more information see OSHA document 1910.1052  Substance listed; for more information see OSHA document 1910.1052  See Table Z-2			
		PEL	25.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens	
		1910.1052 This section applies to all occupational exposures to methylene chloride (MC), Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula, CH2Cl2. Its Chemical Abstracts Service Registry Number is 75-09-2. Its molecular weight is 84.9 g/mole OSHA specifically regulated carcinogen			
		STEL	125.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens	
		This section applies to all occupational exposures to methy chloride (MC), Chemical Abstracts Service Registry Number 2, in general industry, construction and shipyard employment Methylene chloride (MC) means an organic compound with formula, CH2Cl2. Its Chemical Abstracts Service Registry 75-09-2. Its molecular weight is 84.9 g/mole OSHA specifically regulated carcinogen			

**Biological occupational exposure limits** 

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methylene chloride	75-09-2	Dichlorometh ane	0.3000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

# 8.2 Exposure controls

# **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 148 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid

Colour: colourless

b) Odourc) Odour Thresholdd) pHNo data availableNo data available

e) Melting point/freezing Mel

point

Melting point/range: -97 °C (-143 °F)

f) Initial boiling point and

boiling range

39.8 - 40 °C (103.6 - 104 °F)

g) Flash point No data available

h) Evaporation rate 0.71

i) Flammability (solid, gas) No data available

j) Upper/lower Upper explosion limit: 19 %(V) flammability or Lower explosion limit: 12 %(V)

explosive limits

k) Vapour pressure 470.9 hPa (353.2 mmHg) at 20.0 °C (68.0 °F)

I) Vapour density 2.93 - (Air = 1.0)

m) Relative density 1.325 g/mL at 25 °C (77 °F)

n) Water solubility slightly solubleo) Partition coefficient: n- log Pow: 1.25

octanol/water

p) Auto-ignition 556.1 °C (1,033.0 °F) temperature 662.0 °C (1,223.6 °F)

q) Decomposition temperature

No data available

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties No data available

#### 9.2 Other safety information

Relative vapour density 2.93 - (Air = 1.0)

#### 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

Contains the following stabiliser(s): 2-Methyl-2-butene (>0.005 - <0.015 %)

#### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

Heat, flames and sparks. Exposure to sunlight.

#### 10.5 Incompatible materials

Alkali metals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium, Strong acids and strong bases, Vinyl compounds

#### 10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - > 2,000 mg/kg

LC50 Inhalation - Rat - 52,000 mg/m3

LD50 Dermal - Rat - > 2,000 mg/kg (OECD Test Guideline 402)

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Irritating to skin. - 24 h

(Draize Test)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritating to eyes. - 24 h

(Draize Test)

### Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

Rat

DNA damage

### Carcinogenicity

Carcinogenicity - Rat - Inhalation

Tumorigenic:Carcinogenic by RTECS criteria. Endocrine:Tumors.

Limited evidence of carcinogenicity in animal studies

Suspected human carcinogens

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Methylene chloride)

NTP: Reasonably anticipated to be a human carcinogen (Methylene chloride)

OSHA: OSHA specifically regulated carcinogen (Methylene chloride)

#### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

### Specific target organ toxicity - repeated exposure

Inhalation - May cause damage to organs through prolonged or repeated exposure. - Central nervous system Oral - May cause damage to organs through prolonged or repeated exposure. - Liver, Blood

### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: PA8050000

Dichloromethane is metabolized in the body producing carbon monoxide which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen-carrying capacity of the blood., Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material., Abdominal pain

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

12.2

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 1,682.00 mg/l - 48 h

other aquatic invertebrates

# Persistence and degradability

Biodegradability Result: < 26 % - Not readily biodegradable.

(OECD Test Guideline 301C)

#### 12.3 Bioaccumulative potential

Does not bioaccumulate.

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1593 Class: 6.1 Packing group: III

Proper shipping name: Dichloromethane Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1593 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: DICHLOROMETHANE

**IATA** 

UN number: 1593 Class: 6.1 Packing group: III

Proper shipping name: Dichloromethane

#### 15. REGULATORY INFORMATION

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date 75-09-2 2007-07-01

SARA 311/312 Hazards

Methylene chloride

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** 

Methylene chloride CAS-No. Revision Date 75-09-2 2007-07-01

Pennsylvania Right To Know Components

Methylene chloride CAS-No. Revision Date 75-09-2 2007-07-01

**New Jersey Right To Know Components** 

Methylene chloride CAS-No. Revision Date 75-09-2 2007-07-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. CAS-No. Revision Date 2007-09-28

Methylene chloride

### **16. OTHER INFORMATION**

# Full text of H-Statements referred to under sections 2 and 3.

Carc. Carcinogenicity
Eye Irrit. Eye irritation

H315 Causes skin irritation.

H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

**HMIS Rating** 

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard 0

**NFPA** Rating

Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lawson Screen Products, Inc shall not be held liable for any damage resulting from handling or from contact with the above product.