PROTECT_DIP

Safety Data Sheet

Protect_DIP Aerosol

Section 1. Identification

Product identifier: Protect_DIP Aerosol
Other means of identification: Not applicable
Recommended use: Protective Removable Paint.

Supplier's details:

Protect_DIP
#217 – 3450, Blvd. Ste.Anne
Québec, Canada G3E 1L7
(418) 801-9066
Fax: 418-647-3943

Emergency phone numbers:

International: CANUTEC: (613) 996-6666

Or call your local Emergency Health Services Center.

Section 2. Hazard identification

Classification:

Flammable Aerosol, Category 1 Skin corrosion/irritation, Category 2 Eye damage/irritation, Category 2A
Carcinogenic, Category 2
Reproductive toxicity, Category 2
Specific target organ toxicity (Single exposure), Category 3
Specific target organ toxicity (Repeated exposure), Category 1
Aspiration Hazard, Category 1

Signal word : Danger

Hazard statement
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H319: Causes serious eye irritation
H222: Extremely flammable aerosol
H229: Pressurised container: may burst if heated
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer
H361: Suspected of damaging fertility or the unborn child
H372: Causes damage to organs through prolonged or repeated exposure

Precautionary statement
P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211: Do not spray on an open flame or other ignition source
P251: Pressurized container – Do not pierce or burn, even after use
P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P310: IF SWALLOWED: Immediately contact a poison control centre or doctor.
P302+ P352: If on skin wash with plenty of water.
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 so. Continue rinsing.

P308+P313: If exposed or concerned get medical advice.
P314: Get medical attention if you feel unwell.
P331: Do not induce vomiting.
P332+P313: If skin irritation occurs, get medical advice.
P337+P313: If eye irritation persists get medical attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P403+P233: Store in a well-ventilated place, keep container tightly closed.
P405: Store locked up.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/112°F.
P501: Dispose of contents or container in accordance with local, regional, national, international regulations.

Section 3. Composition/information on ingredients

Name	CAS	Proportion range
Dimethyl ether	115-10-6	25 to 30%
Polyisoprene	9003-31-0	16 to 20%
Dimethylbenzene	1330-20-7	10 to 15%
Isohexane	73513-42-5	10 to 15%
Toluene	108-88-3	10 to 15%
Heptane	142-82-5	5 to 10%
Additives	-	1 to 3%
Carbon black	1333-86-4	1 to 3%
Trimethylbenzene	108-67-8	1 to 3%
UV protect	70321-86-7	0.10%

Section 4. First-aid measures

Description of necessary First-aid measures:
Eyes: Immediately flush eyes with plenty of water. Check for contact lenses; carefully remove them if you can.
Skin: Rinse skin with plenty of water and wash exposed areas with soft soap and water.
Inhalation: In case of breathing difficulty following exposure to product, move the victim to fresh air. If the victim ceased breathing, provide artificial respiration. Do not use mouth-to-mouth techniques if victims face, mouth and airways are contaminated with the substance. Induce artificial respiration with a pocket mask equipped with a one-way valve or other proper respiratory medical devices.
Ingestion: In case of ingestion, DO NOT induce vomiting. Rinse mouth with water.

Most important symptoms/ effects, acute and delayed:
Serious eye irritation. Skin irritation. May cause respiratory tract irritation, dizziness or drowsiness. Damageable to target organs. May be fatal if swallowed or enters airways.

Indication of immediate medical attention and special treatment needed, if necessary:
Get medical attention immediately in case of irritation symptoms, inhalation or ingestion. Provide treatments according to symptoms. In case of inhalation symptoms, monitor for respiratory complications.

Section 5. Fire-fighting measures

Suitable extinguishing media
Use dry chemical powder, alcohol resistant mousse or carbon dioxide. Do not use water. Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire.

Specific hazard arising from the chemical
Pressurised container, may burst if heated.

Special protective actions for fire-fighters
Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
For non emergency personnel: Evacuate area.
For emergency personnel: Eliminate all ignition sources. Isolate spill and stop leak where safe. Wear appropriate protective equipment as well as respirator based on the extent of the spill and the air concentration levels.

Environmental precautions:
Do not let into sewers or waterways.

Methods and material for containment and cleaning up:
Try to work upwind of spill. Avoid direct contact with material. Ensure adequate ventilation. Saturated clothing should be immediately removed to avoid flammability hazard. Use water fog to knock down vapours; contain runoff. Collect with non-combustible absorbent and put into suitable containers. Flush area with water to remove trace residue.

Section 7. Handling and storage

Precaution for safe handling:
Wear all appropriate protective equipment. Do not breathe vapours and avoid prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Air-dry contaminated clothing in a well ventilated area before laundering. Practice safe occupational hygiene measures.

Conditions for safe storage:
Store in a cool, dry, well ventilated area, away from heat and ignition sources. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid).

Section 8. Exposure Controls/Personal Protection

Control parameters:

Dimethyl ether (115-10-6)
OEL: TWA 1,000 ppm

Isohexane (73513-42-5)
ACGIH: TWA 500 ppm
ACGIH: STEL 1000 ppm

Toluene (108-88-3)
OEL: TWA 20 ppm
ACGIH: TWA 20 ppm

Heptane (142-82-5)
ACGIH: TWA 400 ppm
ACGIH: STEL 500 ppm

Carbon black (133-86-4)
ACGIH: TWA 3.5 mg/m^3
OEL: TWA 3.5 mg/m^3

Appropriate engineering controls:
Use with adequate ventilation to meet the limits listed above.

Individual protection measures:

Eyes/Face protection: Safety glasses with side shields or face shield.
Skin protection: Wear chemical resistant gloves, long sleeves and pants.
Respiratory protection: Select appropriate respiratory protection according to exposure levels and duration.

Section 9. Physical and chemical properties

Physical state: Liquid
Color: Black
Odour: Characteristic
Melting point/Freezing point: Data not available
Boiling point: Data not available
Flammability: Product is flammable
Lower and upper explosion limits: Data not available
Flash point: -18 to 23°C Closed cup method
Auto-ignition temperature: Data not available
Decomposition temperature: Data not available
pH: Data not available
Kinematic viscosity: Data not available
Solubility: Data not available
Partition in coefficient n-octanol/water: Data not available
Vapour pressure: Data not available
Density: Data not available
Relative vapour density: Data not available
Particle characteristics: Data not available

Section 10. Stability and reactivity

Reactivity: Product is not reactive
Chemical stability: Stable under normal conditions
Possibility of hazardous reactions: Will not occur
Conditions to avoid: Must be kept away from all ignition sources
Incompatible materials: Strong oxidizers and acids
Hazardous decomposition products: Carbon oxides

Section 11. Toxicological information

Acute toxicity

Dimethyl ether	115-10-6	LC_{50} Inhalation – Rat – male - 164000 ppm - 4h
Toluene	108-88-3	LD_{50} Oral – Rat - >5,580 mg/kg LC_{50} Inhalation – Rat 12,500 – 28,800 mg/m^3 - 4h LD_{50} Dermal – Rabbit - >12,196 mg/kg
Heptane	142-82-5	LC_{50} Inhalation – Rat – 103, 00 - mg/m^3 - 4h
Carbon black	1333-86-4	LD_{50} Oral – Rat - >8,000 mg/kg LD_{50} Dermal – Rabbit - >3,000 mg/kg
UV protect	70321-86-7	LD_{50} Oral – Rat - 7,550 mg/kg LD_{50} Dermal – Rat - >2,000 mg/kg

Skin corrosion/irritation
Toluene: Skin – Rabbit –Skin irritation – 24h
Carbon black: No skin irritation – 24h OECD test guideline 404
Serious eye damage/irritation
Toluene: No irritation - OECD test guideline 405
Heptan: No irritation - OECD test guideline 405
Carbon black: No eye irritation – OECD test guideline 405

Respiratory or skin sensitisation
None of the ingredients have shown any positive results in animal testing.

Gem cell mutagenicity
Dimethyl ether: Laboratory tests on animals provided negative results
Toluene: Genotoxicity in vitro – Rat – liver / DNA damage
Carbon black: Laboratory tests on animals provided negative results

Carcinogenicity
Carbon black: Classified by IARC – group 2b – Possibly carcinogenic to humans.

Reproductive toxicity
Toluene: Damage to foetus possible. Suspected human reproductive toxicant.

STOT- Single exposure
Drowsiness or dizziness

STOT- repeated exposure
No data available

Aspiration hazard
No data available

Information on likely route of exposure:
Inhalation, ingestions, eyes and skin

Section 12. Ecological information

Toxicity:

Dimethyl ether (115-10-6)	Toxicity to fish	semi-static test LC_{50} Peocillia reticulata (guppy) >4.1 g/l - 96h
	Toxicity to Daphnia	static test EC_{50} Daphnia Magna (water flea) >4.4 g/l - 48h
	Toxicity to bacteria	Respiration inhibition EC_{10} – Pseudomonas putida >1,600mg/l 30min
Toluene (108-88-3)	Toxicity to fish	LC_{50} Oncorhynchus mykiss (rainbow trout) 7.63mg/l – 96h
		NOEC – Pimephales promelas (fathead minnow) 5.44 mg/l – 7d
	Toxicity to daphnia	EC_{50} Daphnia magna (water flea) 8.00 mg/l - 24h
	Toxicity to algae	Immobilization EC_{50} Daphnia magna (water flea) 6 mg/l – 48h
		EC_{50} Chlorella vulgaris (Fresh water algae) 245.00 mg/l – 24h
		EC_{50} Pseudokirchneriella subcapitata (green algae) 10.00 mg/l – 24h
Heptane (142-82-5)	Toxicity to Fish	LC_{50} Carassius auratus (goldfish) 4mg/l – 24h
		LC_{50} Tilapia mossambica – 375 mg/l - 96h
	Toxicity to Daphnia	EC_{50} Daphnia magna (water flea) 1.5mg/l – 48h
Carbon black (1333-86-4)	Toxicity to fish	LC_{50} Danio rerio (zebra fish) >1,000 mg/l – 96h
	Toxicity to Daphnia	static test EC_{50} Daphnia magna (Water flea) >5,600 mg/l – 24h
	Toxicity to algae	static test EC_{50} Desmodesmus subspicatus(green algae) >10,000mg/l – 72h

Persistance and degradability
Dimethyl ether : 5% Not readily biodegradable
Toluene: Readily biodegradable

Bioaccumulative potential
Toluene: Leuciscus idus (Golden orfe) 3d / Bioconcentration factor (BCF): 90
Heptane: Indication of bioaccumulation

Mobility in soil
No data available

PBT and vPvB assessment
No data available

Other adverse effects
Toxic to aquatic life.

Section 13. Disposal considerations

Disposal methods
Offer surplus to a licensed disposal company.

Section 14. Transport information

DOT
UN number: UN1950 **Class:** 2.1 **Packing group:** II
Proper shipping name: Aerosols, Flammable
Reportable quantity: 5L
Marine pollutant: No
Poison inhalation hazard: No

IMDG
UN number: UN1950 **Class:** 2.1 **Packing group:** II **EMS-No:** F-D, S-U
Proper shipping name: Aerosols, Flammable
Marine pollutant: No

IATA:
UN number: UN1950 **Class:** 2.1 **Packing group:** II
Proper shipping name: Aerosols, Flammable

Section 15. Regulatory information

NFPA classification

Health: 3
Flammable: 4
Reactivity: 0
Specials conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

U.S. Federal regulations:

TSCA 8(b) inventory: Heptane
SARA section 311/312 (classification): Fire hazard/ Immediate acute health hazard/ Delayed chronic health hazard
SARA section 313 (specific toxic chemical listings): Xylene, Toluene

WHMIS:

B5- FlammableAerosol

D2A- Very toxic material causing other toxic effects
D2B- Toxic material causing other toxic effects

Classification REACH(EU):

ESIS - European chemical Substances Information System: Listed (components).

REACH - Registration, Evaluation, Authorisation and Restriction of Chemical substances:

List of Registered Phase-in Substances:			Registered As:		
EC No.	**CAS RN**	**Substance Name**	**Full**	**OSII**	**TII**
215-609-9	1333-86-4	Carbon black	Yes	-	-
203-625-9	108-88-3	Toluene	Yes	-	-
215-535-7	1330-20-7	Dimethylbenzene	Yes	-	-
203-604-4	108-67-8	Trimethylbenzene	Yes	-	-
205-563-8	142-82-5	Heptane	Yes	-	-
204-065-8	115-10-6	Dimethyl ether	Yes	-	-
274-570-6	70321-86-7	UV Protect	Yes	-	-

Section 16. Other information

Date of preparation: January 14th 2016

Version: 1

Elaborated by: **Toxyscan inc., 1-866-780-0599**

References:

- ANSI Z400.1, MSDS Standard, 2010.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods.
- Toxicological repertory, HSC.
- The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) http://www.hc-sc.gc.ca/a
- Phase-in Substances Registered 7-Dec-2010.
- Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals.
- Material safety data sheet from the manufacturer.

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