

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
Date of first issue: 07/15/2020

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**SECTION 1. IDENTIFICATION**

Product name : MasterProtect P 8100AP  
Product code : 000000000050341562 000000000050341562

**Manufacturer or supplier's details**

Company name of supplier : Master Builders-Construction Systems  
US, LLC  
Address : 23700 CHAGRIN BLVD  
Beachwood OH 44122  
Emergency telephone : ChemTel: +1-813-248-0585

**Recommended use of the chemical and restrictions on use**

Recommended use : Product for construction chemicals  
Restrictions on use : Reserved for industrial and professional use.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

FLAMMABLE LIQUIDS : 2  
Skin corrosion/irritation : 2  
Serious eye damage/eye irritation : Category 2A  
Skin sensitization : 1  
Carcinogenicity : 2  
Specific target organ toxicity - repeated exposure : 2 (Auditory organ)  
Short-term (acute) aquatic hazard : 1  
Long-term (chronic) aquatic hazard : 1

**GHS label elements**

Hazard pictograms : 

Signal Word : Danger

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## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
Date of first issue: 07/15/2020

---

Hazard Statements : H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs (Auditory organ) through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P260 Do not breathe dust or mist.  
P201 Obtain special instructions before use.  
P243 Take action to prevent static discharges.  
P202 Do not handle until all safety precautions have been read and understood.  
P241 Use explosion-proof [electrical/ ventilating/ lighting/ .?] equipment.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P233 Keep container tightly closed.  
P242 Use only non-sparking tools.  
P240 Ground and bond container and receiving equipment.  
P264 Wash face, hands and any exposed skin thoroughly after handling.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.

P391 Collect spillage.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

**Storage:**

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
 Date of first issue: 07/15/2020

P405 Store locked up.  
 P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 Dispose of contents/container to appropriate hazardous waste collection point.

**Other hazards**

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : No applicable information available.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
zinc	7440-66-6	>= 50 - < 75
Methylethylketone	78-93-3	>= 7 - < 10
xylene	1330-20-7	>= 7 - < 10
Reaction product: bisphenol-A-(epichlorhydrin)-Epoxy resin (number average molecular weight <= 700)	25068-38-6	>= 5 - < 7
ethylbenzene	100-41-4	>= 1 - < 3
cyclohexanone	108-94-1	>= 1 - < 3
talc	14807-96-6	>= 1 - < 3

**SECTION 4. FIRST AID MEASURES**

- General advice : Remove contaminated clothing.  
 Move out of dangerous area.  
 Show this material safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Keep patient calm, remove to fresh air, seek medical attention.  
 If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : Wash thoroughly with soap and water  
 If skin irritation persists, call a physician.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.  
 Immediately flush eye(s) with plenty of water.

## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

---

- Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
- Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of causing cancer.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

---

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : no smoking  
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.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.  
Protect from direct sunlight.
- Materials to avoid : Segregate from metals.  
Segregate from lyes.  
Segregate from oxidants.  
Segregate from foods and animal feeds.

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
 Date of first issue: 07/15/2020

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methylethylketone	78-93-3	STEL value	300 ppm	ACGIHTLV
		TWA value	200 ppm	ACGIHTLV
		REL value	200 ppm 590 mg/m3	NIOSH
		STEL value	300 ppm 885 mg/m3	NIOSH
		PEL	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	300 ppm 885 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
STEL	300 ppm 885 mg/m3	OSHA P0		
ethylbenzene	100-41-4	TWA value	20 ppm	ACGIHTLV
		STEL value	125 ppm 545 mg/m3	NIOSH
		REL value	100 ppm 435 mg/m3	NIOSH
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	125 ppm 545 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	20 ppm	ACGIH

**SAFETY DATA SHEET**

**MasterProtect P 8100AP**

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
 Date of first issue: 07/15/2020

		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
cyclohexanone	108-94-1	TWA value	20 ppm	ACGIHTLV
		STEL value	50 ppm	ACGIHTLV
		REL value	25 ppm 100 mg/m3	NIOSH
		PEL	50 ppm 200 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	25 ppm 100 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
		TWA	25 ppm 100 mg/m3	NIOSH REL
		TWA	50 ppm 200 mg/m3	OSHA Z-1
		TWA	25 ppm 100 mg/m3	OSHA P0
zinc oxide	1314-13-2	TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV
		STEL value (Respirable fraction)	10 mg/m3	ACGIHTLV
		REL value (fumes/smok e)	5 mg/m3	NIOSH
		REL value (dust)	5 mg/m3	NIOSH
		STEL value (fumes/smok e)	10 mg/m3	NIOSH
		Ceil_Time (dust)	15 mg/m3	NIOSH
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Respir- able fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (fumes/smok e)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR

**SAFETY DATA SHEET**

**MBCC GROUP**

**MasterProtect P 8100AP**

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
 Date of first issue: 07/15/2020

		(fumes/smoke)		1910.1000 (Table Z-1-A)
		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value (fumes/smoke)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
		STEL (Respirable particulate matter)	10 mg/m3	ACGIH
		TWA (Dust)	5 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	NIOSH REL
		ST (Fumes)	10 mg/m3	NIOSH REL
		C (Dust)	15 mg/m3	NIOSH REL
		TWA (Fumes)	5 mg/m3	OSHA Z-1
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Fumes)	5 mg/m3	OSHA P0
		STEL (Fumes)	10 mg/m3	OSHA P0
xylene	1330-20-7	TWA value	100 ppm	ACGIHTLV
		STEL value	150 ppm	ACGIHTLV
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	150 ppm 655 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		REL value	100 ppm 435 mg/m3	NIOSH
		STEL value	150 ppm 655 mg/m3	NIOSH



## MasterProtect P 8100AP

Version  
1.0Revision Date:  
07/15/2020SDS Number:  
000000261398Date of last issue: -  
Date of first issue: 07/15/2020

		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm 435 mg/m <sup>3</sup>	OSHA P0
aluminium oxide	1344-28-1	TWA value (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIHTLV
		PEL (Respirable fraction)	5 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		TWA value (Respirable fraction)	5 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Total dust)	10 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable particulate matter)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m <sup>3</sup>	ACGIHTLV
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : No applicable information available.

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
Date of first issue: 07/15/2020

---

**Personal protective equipment**

- Respiratory protection : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Avoid contact with the skin, eyes and clothing.  
In order to prevent contamination while handling, closed working clothes and working gloves should be used.  
Handle in accordance with good building materials hygiene and safety practice.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Color : gray
- Odor : solvent
- pH : neutral to slightly alkaline
- Boiling point : 174.99 - 286.00 °F / 79.44 - 141.11 °C
- Flash point : 39.99 °F / 4.44 °C  
39.99 °F / 4.44 °C
- Evaporation rate : No applicable information available.
- Flammability (solid, gas) : not determined

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
Date of first issue: 07/15/2020

---

Upper explosion limit / Upper flammability limit : 13.7 %(V)

Lower explosion limit / Lower flammability limit : 1.0 %(V)

Relative vapor density : Heavier than air.

Relative density : 2.04

Density : 2.04 g/cm<sup>3</sup> (68 °F / 20 °C)  
approx. 16.97 lb/USg (68 °F / 20 °C)

Solubility(ies)  
Solubility in other solvents : No applicable information available.

Autoignition temperature : No data available

Viscosity  
Viscosity, kinematic : No applicable information available.

Oxidizing properties : Based on its structural properties the product is not classified as oxidizing.

Sublimation point : No applicable information available.

Molecular weight : No data available.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong bases  
Strong acids  
Oxidizing agents

Hazardous decomposition products : carbon oxides

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Product:**

## MasterProtect P 8100AP

Version      Revision Date:      SDS Number:      Date of last issue: -  
1.0            07/15/2020            000000261398      Date of first issue: 07/15/2020

---

Acute oral toxicity            :    Remarks: No applicable information available.

Acute inhalation toxicity    :    Remarks: No applicable information available.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Suspected of causing cancer.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

May cause damage to organs (Auditory organ) through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Experience with human exposure****Product:**

General Information            :    Remarks: According to experience, the product is considered to be harmless to health if used in the correct manner.

**Further information****Product:**

Remarks                        :    Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity            :    Very toxic to aquatic life.

## MasterProtect P 8100AP

Version 1.0      Revision Date: 07/15/2020      SDS Number: 000000261398      Date of last issue: -  
Date of first issue: 07/15/2020

---

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****zinc:**

Partition coefficient: n-octanol/water : Remarks: The value has not been determined because the substance is inorganic.

**Methylethylketone:**

Partition coefficient: n-octanol/water : log Pow: 0.29  
Method: other (measured)  
GLP: no data  
Remarks: Information taken from reference works and the literature.

**xylene:**

Partition coefficient: n-octanol/water : log Pow: 3.12 - 3.20 (77 °F / 25 °C)  
Method: other (calculated)  
GLP: no  
Remarks: Information taken from reference works and the literature.

**ethylbenzene:**

Partition coefficient: n-octanol/water : Pow: 4,170 (68 °F / 20 °C)  
log Pow: 3.6 (68 °F / 20 °C)  
pH: 7.8  
Method: Partition coefficient  
GLP: yes

**cyclohexanone:**

Partition coefficient: n-octanol/water : log Pow: 0.86 (77 °F / 25 °C)  
Method: Partition coefficient (n-octanol/water), Shake-flask method  
GLP: no

**talc:**

Partition coefficient: n-octanol/water : Remarks: not applicable

**Mobility in soil**

No data available

**Other adverse effects****Product:**

## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

---

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with national, state and local regulations.  
Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 1139  
Proper shipping name : COATING SOLUTION  
(METHYLETHYLKETONE, )  
Class : 3  
Packing group : II  
Labels : 3

**IATA-DGR**

UN/ID No. : UN 1139  
Proper shipping name : COATING SOLUTION  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

UN number : UN 1139  
Proper shipping name : COATING SOLUTION  
(METHYLETHYLKETONE, )  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : yes

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

**Domestic regulation****49 CFR**

UN/ID/NA number	:	UN 1139
Proper shipping name	:	COATING SOLUTION
Class	:	3
Packing group	:	II
Labels	:	FLAMMABLE LIQUID
ERG Code	:	127
Marine pollutant	:	no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION**

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

zinc oxide	1314-13-2
xylene	1330-20-7
aluminium oxide	1344-28-1
zinc	7440-66-6

**US State Regulations****Pennsylvania Right To Know**

propan-1-ol	71-23-8
ethylbenzene	100-41-4
1-methoxypropan-2-ol	107-98-2
cyclohexanone	108-94-1
zinc oxide	1314-13-2
xylene	1330-20-7
aluminium oxide	1344-28-1
Silicon dioxide	7631-86-9
talc	14807-96-6
zinc	7440-66-6
cadmium	7440-43-9

**New Jersey Right To Know**

propan-1-ol	71-23-8
Methylethylketone	78-93-3
ethylbenzene	100-41-4
1-methoxypropan-2-ol	107-98-2
cyclohexanone	108-94-1
zinc oxide	1314-13-2
xylene	1330-20-7
aluminium oxide	1344-28-1

**MasterProtect P 8100AP**

Version 1.0	Revision Date: 07/15/2020	SDS Number: 000000261398	Date of last issue: - Date of first issue: 07/15/2020
----------------	------------------------------	-----------------------------	--

talc	14807-96-6
zinc	7440-66-6
lead	7439-92-1

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

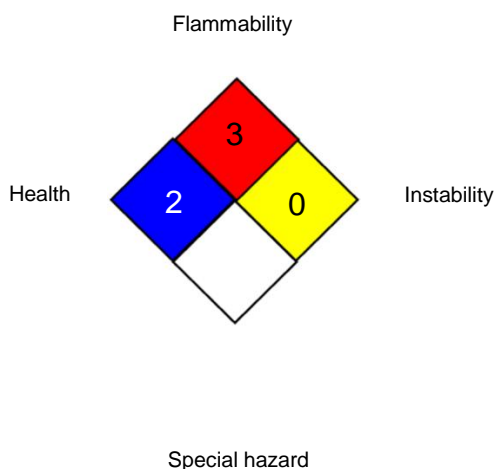
**The ingredients of this product are reported in the following inventories:**

TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

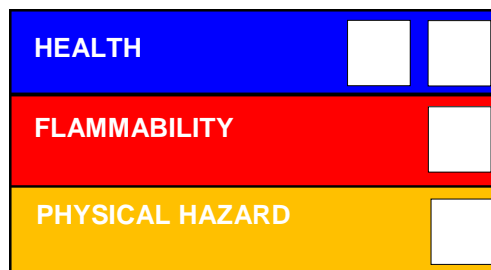
**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

- 29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)
- 29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000
- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)
- NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-



## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

OSHA Z-3 : its for Air Contaminants  
 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

29 CFR 1910.1000 (Table Z-1-A) / STEL value : Short Term Exposure Limit (STEL):

29 CFR 1910.1000 (Table Z-1-A) / TWA value : Time Weighted Average (TWA):

29 CFR 1910.1000 (Table Z-1) / PEL : Permissible exposure limit

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

ACGIHTLV / STEL value : Short Term Exposure Limit (STEL):

ACGIHTLV / TWA value : Time Weighted Average (TWA):

NIOSH / Ceil\_Time : Ceiling Limit Value and Time Period (if specified):

NIOSH / REL value : Recommended exposure limit (REL):

NIOSH / STEL value : Short Term Exposure Limit (STEL):

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / STEL : Short-term exposure limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Sub-

## MasterProtect P 8100AP

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	07/15/2020	000000261398	Date of first issue: 07/15/2020

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stance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 07/15/2020

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