

MAERIAL SAFETY DATA SHEET

Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

MSDS Name. : CHECKMATE SUPER CLEANER CL-96
Company Identification. : CHECKMATE INDIA.
13, Modern Industrial Estate-Phase-A.
Bahadurgarh-Haryana (India).
For Information Call. : 011-23213210
Emergency Number. : 09310065762

Section-2 . COMPOSITION , INFORMATION ON INGREDIENTS

Chemical Name :CHECKMATE SUPER CLEANER CL-96

Section-3. HAZARDS IDENTIFICATION

Appearance :Clear Transparent Liauid Solvents compounds.
Danger. :Extremely Flammable Liquid and Vapor may cause
Eye Irrigation. Breathing Vapors may cause drowsiness

Target Organ. :Central nervous system, respiratory system, eyes skin.

Section 4 FIRST AID MEASURES.

Eyes/Skin. :Immediately flush eyes with plenty of water for at least
15 minutes get medical aid. Remove contaminated cloth
Do not use without proper water wash and rinsing.

Section 5 FIRE FIGHTING MEASURES.

Extinguishing Media. :Use Dry Chemical Powder, CO2. Avoid Use of Water as
It will not cool material below its flash point.

Section 6 ACCIDENTAL RELEASE MEASURES.

General Information. Use proper personal protective equipments.
Spills/Leaks. Absorb spill with inert material (Sand or Earth), then place in suitable container,
Avoid runoff into storm sewers and ditches which lead to waterways. Use personal
protective appropriate clothing to avoid contact with eyes & skin. Use only non sparking tools
and equipments.

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Section 7 HANDLING AND STORAGE.

Handling.

Wash thoroughly after handling, Remove contaminated clothing and wash before reuse. Avoid contact with eyes skin and clothing. Empty Aerosol Containers product residue and propellant and can be dangerous. DO NOT CUT OR WELD. KEEP AWAY FROM DIRECT FLAME AND FIRE. Use in well ventilated area. Avoid breathing vapor.

Storage. Keep the Aerosol Containers in dry, cool place away from sources of ignition in well ventilated area

SECTION 8 EXPOSURE CONTROL, PERSONAL PROTECTION.

Engineering Control. Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower. Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. Ventilation Fans and electrical service must be non-sparking and have an explosion proof design. PELs: 750 TWA. 750 ppm STEL.

PERSONAL Protective Equipments.

Eyes. Wear chemical splash Goggles.

Skin. Water butyl rubber gloves, apron and /or clothing.

Respirators. A NIOSH/MSHA approved or EN 149 air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentration are expected.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES.

Physical State.	:	Liquid.
Appearance	:	Clear Transparent Liquid Solvent
Odor.	:	Sweetish odor.
pH.	:	N/A
Vapor Pressure.	:	97.68 mm/Hg 20D.C
Evaporation rate.	:	5.6 (n-Butyl acetate=1).
Viscosity.	:	0.32 cps @ 20 Deg. C.
Boiling Point.	:	60.5 Deg.C.
Freezing Melting Point.	:	94 Deg.C.
Specific Gravity.	:	0.791 @ 20 Deg.C.

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SECTION 10 STABILITY AND REACTIVITY.

Chemical Stability.	:Stable at room temp in closed container.
Condition to Avoid.	:High Temp., Ignition sources.
Incompatibilities with other Materials.	:Oxidizing agents, reducing agents, All Acids & chlorides.
Hazardous Polymerization.	:Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION.

Dermal, Guinea pig:	LD 50=> 9400 uL/Kg.
Draize Test Rabbits eye.	20 mg Severe.
Inhalation mouse.	LC50= 44 gm/m ³ /8H
Oral Mouse.	LD50 3 gm/Kg.

EPIDEMIOLOGY. In a series of studies, not statistically significant differences in cause of death or clinical lab. Results were observed in 948 employees exposed to up to 1070 over 23 years.

SECTION 12 ECOLOGICAL INFORMATION.

Environmental: Volatilizes, leeches, and biodegrades when released to soil. Checkmate Super Cleaner CL-96 is biodegrades fairly rapidly on soil. Aquatic fate: If released into the water, it will probably biodegrade. Its readily biodegradable in screen tests, although data from natural water are lacking. PHYSICAL: ATMOSPHERIC FATE In the atmosphere, checkmate developer will be lost by photolysis and reaction with photo chemically produced hydroxyl radicals.

SECTION 13 DISPOSAL CONSIDERATIONS.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. The waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 TRANSPORT INFORMATION.

Shipping Name: Hazard Class 3
Packing group: UN1090 II.

SECTION 15 REGULATORY INFORMATION.

Health and Safety Reporting List. This product is not on the Health and Safety Reporting list.
Clear Air Act. This material does not contain any hazardous air pollutants.
This material does not contain any class 1 Ozone depletes.
This material does not contain any class 2 ozone depletory.

CLEAR WATER ACT.

None of the ingredients of these products are listed as Priority Pollutants under Central Pollution Control Board.

OSHA.

None of the chemicals in this product are considered highly hazardous by OSHA.

SECTION 16 ADDITIONAL INFORMATION.

This information above is believed to be accurate and represents the best of information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no even shall CHECKMATE INDIA be liable for any claims, losses, or damages of any third party or for lost profits or any special indirect, incidental, consequential or exemplary damages, however arising even if CHECKMATE INDIA has been advised of the possibility of such damages.

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MAERIAL SAFETY DATA SHEET

Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

MSDS Name. : CHECKMATE SUPER PENETRANT PT-97.
Company Identification. : CHECKMATE INDIA.
13, Modern Industrial Estate-Phase-A.
Bahadurgarh-Haryana (India).
For Information Call. : 011-23213210
Emergency Number. : 09310065762

Section-2 . COMPOSITION , INFORMATION ON INGREDIENTS

Chemical Name :CHECKMATE SUPER PENETRANT PT-97
Mixture of solvent and oil soluble dyes with wetting agent.

Section-3. HAZARDS IDENTIFICATION

Appearance :BRIGHT PINK LIQUID COMPOUND.
Danger. :Harmful if swallowed-aspiration hazard. This material may
Contain significant quantities of polycyclic aromatic hydro-
Carbons. Repeated use may cause skin dryness or cracking.

Section 4 FIRST AID MEASURES.

Eyes/Skin. :Immediately flush eyes with plenty of water for at least
15 minutes get medical aid. Remove contaminated cloth
Do not use without proper water wash and rinsing.

Section 5 FIRE FIGHTING MEASURES.

Extinguishing Media. :Use Dry Chemical Powder, CO2. Avoid Use of Water as
It will not cool material below its flash point.

Section 6 ACCIDENTAL RELEASE MEASURES.

General Information. Use proper personal protective equipments.
Spills/Leaks. Absorb spill with inert material (Sand or Earth), then place in suitable container,
Avoid runoff into storm sewers and ditches which lead to waterways. Use personal
protective appropriate clothing to avoid contact with eyes & skin. Use only non sparking tools
and equipments.

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Section 7 HANDLING AND STORAGE.

Handling.

Wash thoroughly after handling, Remove contaminated clothing and wash before reuse. Avoid contact with eyes skin and clothing. Empty Aerosol Containers product residue and propellant and can be dangerous. DO NOT CUT OR WELD. KEEP AWAY FROM DIRECT FLAME AND FIRE. Use in well ventilated area. Avoid breathing vapor.

Storage. Keep the Aerosol Containers in dry, cool place away from sources of ignition in well ventilated area

SECTION 8 EXPOSURE CONTROL, PERSONAL PROTECTION.

Engineering Control. Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower. Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. Ventilation Fans and electrical service must be non-sparking and have an explosion proof design. PELs: 750 TWA. 750 ppm STEL.

PERSONAL Protective Equipments.

Eyes. Wear chemical splash Goggles.

Skin. Water butyl rubber gloves, apron and /or clothing.

Respirators. A NIOSH/MSHA approved or EN 149 air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentration are expected.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES.

Physical State.	:	Liquid.
Appearance	:	Bright pink color liquid.
Odor.	:	Sweetish odor.
pH.	:	N/A
Boiling Point.	:	180-380 C.
Evaporation rate.	:	5.6 (n-Butyl acetate=1).
Viscosity.	:	0.32 cps @ 20 Deg. C.

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SECTION 10 STABILITY AND REACTIVITY.

Chemical Stability.	:Stable at room temp in closed container.
Condition to Avoid.	:High Temp., Ignition sources.
Incompatibilities with other Materials.	:Oxidising agents, reducing agents, All Acids & chlorides.
Hazardous Polymerization.	:Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION.

Inhalation.	May cause irritation to eyes, nose and throat due to exposure to vapor Mists or fumes.
Ingestion.	Unlikely to cause harm if accidentally swalled to small does, through Larger quantities may cause nausea and diarrhea.
Skin.	Unlikely to cause harm to the skin on brief or occasional contact but Prolonged or repeated exposure may lead to dermatitis.
Eye.	Unlikely to cause more then transient stinging or redness if accidental Eye contact occurs.

SECTION 12 ECOLOGICAL INFORMATION.

Mobility.	Spillages may penetrate the soil causing ground water contamination This material may accumulate in sediments.
Acute Toxicity Other organisms.	Environment spill may form a film on water surfaces causing Physical damage to organisms, Oxygen Transfer could also be Impaired.

SECTION13 DISPOSAL CONSIDERATIONS.

Dispose of by incineration or other suitable means under conditions approved by the Local authority or via a licensed waste disposal contractor. Empty packages may contain Some remaining product. Hazard warning labels are a guide to the safe handling of empty Packaging and should not be removed. Do not incinerate empty aerosol cans under any circumstances unless property emptied evacuating the contents properly.

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SECTION 14 TRANSPORT INFORMATION.

Shipping Name: Hazard Class 3

Packing group. UN1090 II.

SECTION 15 REGULATORY INFORMATION.

Health and Safety Reporting List. This product is not on the Health and Safety Reporting list. Clear Air Act. This material does not contain any hazardous air pollutants.

This material does not contain any class 1 Ozone depletory.

This material does not contain any class 2 ozone depletory

Keep out of reach of children. Avoid contact with all body parts.

Wear Suitable protective clothing and gloves. If swallowed, do not. Induce vomiting; seek medical advice immediately.

OSHA.

None of the chemicals in this product are considered highly hazardous by OSHA.

SECTION 16 ADDITIONAL INFORMATION.

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MAERIAL SAFETY DATA SHEET

Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

MSDS Name. : CHECKMATE SUPER DEVELOPER DV-98.
Company Identification. : CHECKMATE INDIA.
13, Modern Industrial Estate-Phase-A.
Bahadurgarh-Haryana (India).
For Information Call. : 011-23213210
Emergency Number. : 09310065762

Section-2 . COMPOSITION , INFORMATION ON INGREDIENTS

Chemical Name :CHECKMATE SUPER DEVELOPER DV-98

Section-3. HAZARDS IDENTIFICATION

Appearance :White Solid Contents Suspended in Organic Solvents compounds.
Danger. :Extremely Flammable Liquid and Vapor may cause Eye Irrigation. Breathing Vapors may cause drowsiness
Target Organ. :Central nervous system, respiratory system, eyes skin.

Section 4 FIRST AID MEASURES.

Eyes/Skin. :Immediately flush eyes with plenty of water for at least 15 minutes get medical aid. Remove contaminated cloth Do not use without proper water wash and rinsing.

Section 5 FIRE FIGHTING MEASURES.

Extinguishing Media. :Use Dry Chemical Powder, CO2. Avoid Use of Water as It will not cool material below its flash point.

Section 6 ACCIDENTAL RELEASE MEASURES.

General Information. Use proper personal protective equipments.
Spills/Leaks. Absorb spill with inert material (Sand or Earth), then place in suitable container, Avoid runoff into storm sewers and ditches which lead to waterways. Use personal protective appropriate clothing to avoid contact with eyes & skin. Use only non sparking tools and equipments.

Con't to Page. No.2.

Section 7 HANDLING AND STORAGE.

Handling.

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Storage. Keep the Aerosol Containers in dry, cool place away from sources of ignition in well ventilated area

SECTION 8 EXPOSURE CONTROL, PERSONAL PROTECTION.

Engineering Control. Facilities storing or utilizing this material should be equipped with an eye wash facility and safety shower. Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits. Ventilation Fans and electrical service must be non-sparking and have an explosion proof design. PELs: 750 TWA. 750 ppm STEL.

PERSONAL Protective Equipments.

Eyes. Wear chemical splash Goggles.

Skin. Water butyl rubber gloves, apron and /or clothing.

Respirators. A NIOSH/MSHA approved or EN 149 air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentration are expected.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES.

Physical State.	:	Liquid.
Appearance	:	White colour substance.
Odor.	:	Sweetish odor.
pH.	:	7.
Vapor Pressure.	:	231 mm Hg@ 25 Deg.C.
Evaporation rate.	:	5.6 (n-Butyl acetate=1).
Viscosity.	:	0.32 cps @ 20 Deg. C.
Boiling Point.	:	60.5 Deg.C.
Freezing Melting Point.	:	94 Deg.C.
Specific Gravity.	:	0.788 @ 25 Deg.C.
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SECTION 10 STABILITY AND REACTIVITY.

Chemical Stability.	:Stable at room temp in closed container.
Condition to Avoid.	:High Temp., Ignition sources.
Incompatibilities with other Materials.	:Oxidizing agents, reducing agents, All Acids & chlorides.
Hazardous Polymerization.	:Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION.

Dermal, Guinea pig:	LD 50=> 9400 uL/Kg.
Draize Test Rabbit eye.	20 mg Severe.
Inhalation mouse.	LC50= 44 gm/m ³ /8H
Oral Mouse.	LD50 3 gm/Kg.

EPIDEMIOLOGY. In a series of studies, not statistically significant differences in cause of death or clinical lab. Results were observed in 948 employees exposed to up to 1070 over 23 years.

SECTION 12 ECOLOGICAL INFORMATION.

Environmental: Volatilizes, leeches, and biodegrades when released to soil. Checkmate Super Developer DV-98 is biodegrades fairly rapidly on soil. Aquatic fate: If released into the water, it will probably biodegrade. Its readily biodegradable in screen tests, although data from natural water are lacking. PHYSICAL: ATMOSPHERIC FATE In the atmosphere, checkmate developer will be lost by photolysis and reaction with photochemically produced hydroxyl radicals.

SECTION 13 DISPOSAL CONSIDERATIONS.

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. The waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 TRANSPORT INFORMATION.

Shipping Name: Hazard Class 3
Packing group: UN1090 II.

SECTION 15 REGULATORY INFORMATION.

Health and Safety Reporting List. This product is not on the Health and Safety Reporting list.
Clear Air Act. This material does not contain any hazardous air pollutants.
This material does not contain any class 1 Ozone depleters.
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CLEAR WATER ACT.

None of the ingredients of this products are listed as Priority Pollutants under Central Pollution Control Board.

OSHA.

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