
SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: GS-018
Product Name: Retarder
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SECTION 2) HAZARDS IDENTIFICATION

Classification:

Specific Target Organ Toxicity - Repeated Exposure - Category 1
Aspiration Hazard - Category 1
Skin irritation – Category 2
Flammable liquid – Category 3
Carcinogenicity – Category 1B
Eye irritation – Category 2
Acute oral toxicity – Category 4

Pictograms:**Signal Word:**

Danger

Hazardous Statements - Health:

Causes damages to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). Suspected of causing cancer. May be fatal if swallowed and enters airways.

Precautionary statement - General:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary Statements - Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray.
Wash with soap and water thoroughly after handling.
Do not eat, drink, or smoke when using this product.

Precautionary Statement - Response:

Get Medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Do NOT induce vomiting.

Precautionary Statements - Storage:

Store locked up.

Precautionary Statements - Disposal:

Dispose of contents/container to disposal recycling center.

Waste management should be in full compliance with federal, state and local laws.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% by Weight
108-94-1	Cyclohexanone	<16 %
6474-95-6	Solvent Naphtha	<14 %
98-82-8	Cumene	<1 %
95-63-6	1, 2, 4 -Trimethylbenzene	<6 %
1330-20-7	Xylene	<1 %
108-65-6	Glycol Ether PM Acetate	<43 %

SECTION 4) FIRST - AID MEASURES

Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If victim is not breathing, call 911 and administer CPR as directed.

Eliminate all ignition sources if safe to do so.

Skin Contact:

Rinse/wash with lukewarm, gently flowing water (and mild soap) for 15 - 20 minutes or until product is removed. If skin irritation occurs or you feel unwell get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for 15 - 20 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Get immediate medical attention.

Ingestion:

Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call 911 POISON CENTER/DOCTOR. Immediately transport to the nearest medical facility for treatment.

SECTION 5) FIRE - FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical, foam. Carbon dioxide or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable extinguishing Media:

No data available.

Specific Hazards in Case of Fire:

Vapors are heavier than air and may spread near ground to sources of ignition

Fire - Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contained extinguishing water in accordance with official regulations.

Special Protective Actions:

Water protective pressure self-contained breathing apparatus (SCBA) and full turnout gear

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). RELEASE CAN CAUSE FIRE/EXPLOSION. LIQUIDS/VAPORS MAY IGNITE. Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding areas. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal precautions:

Avoid breathing vapors. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use explosive proof equipment. Avoid inhalation of dust and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Method and Materials for Containment and cleaning up:

Sand, clay and absorbent sock can be used to contain a spill.

SECTION 7) HANDLING AND STORAGE

General:

Wash hands after use

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices

Eating, drinking and smoking in work areas is prohibited

Removed contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits.

The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container (s) tightly closed and properly labeled. Store in cool dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Ground and bond containers and receiving equipment and avoid static electricity by grounding. Electrostatic charges may be generated during pumping. Keep away from aerosols, flammables, oxidizing agents, and corrosives from other flammable products.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level, which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI z88.2 should be followed. Check with respiratory protective equipment suppliers.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Check suitability and durability of a glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly dispose of contaminated material, which cannot be decontaminated.

Eye Protection:

Wear eye protection with side shields or goggles. Wear in directed - vent, impact, and splash resistant goggles when working with liquids. Of additional protection is needed for entire face, use in combination with a face shield.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables-Z 1,2,3	OSHA Carcinogen	OSHA SKIN Designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
1,2,4 Trimethylbenzene								25	125			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TZV Basis
1,2,4 Trimethylbenzene		-	-	-	-	-	-

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables-Z 1,2,3	OSHA Carcinogen	OSHA SKIN Designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
Xylene	100	435			1			100	435	150	655	

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TZV Basis
Xylene	100	434	150	651	A4	A4;BEI	URT & EYE irr, CNS imapir

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables-Z 1,2,3	OSHA Carcinogen	OSHA SKIN Designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
Cumene	50	245			1		1	50	245			1

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TZV Basis
Cumene	50	246	150	651	A4	A4;BEI	URT & skin EYE irr, CNS imapir -

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables-Z 1,2,3	OSHA Carcinogen	OSHA SKIN Designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	ACGIH Carcinogen	ACGIH Notations	ACGIH TZV Basis

Chemical Name	Cas #	OSHA PEL	ACGIH TLV
Cyclohexanone	108-94-1	50ppm	20 ppm (TWA)

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density	7.6 lb/gal
% Solids By Weight	0.00 %
Density VOC	7.6 LB/gal
% VOC	100.00 %
VOC Actual	7.6 lb/gal
Specific Gravity	0.91
Appearance	Clear liquid
Odor Threshold	N/A
Odor Description	Hydrocarbon, solvent, acetate
pH	N/A
Water Solubility	N/A
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	42° C
Viscosity	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A

Freezing Point	N/A
Melting Point	N/A
Low Boiling Point	161° C
High Boiling point	171° C
Auto ignition Temp	450° F
Decomposition Pt	0
Evaporation Rate	N/A
Coefficient Water/oil	N/A
VOC Composite Partial Pressure	8.46 mmHg (Calculated @ 20 C/68 F)

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable under normal conditions of use

Conditions to Avoid:

Avoid heat, sparks, open flames, and other ignition sources.

Hazardous Reactions/Polymerization:

No data available

Incompatible Materials:

Strong oxidizing agents

Hazardous Decomposition Products:

Thermal decomposition may yield carbon dioxide and/or carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Acute toxicity:

Ingestion: may be harmful or fatal if swallowed.

Skin Corrosion/Irritation:

Causes skin irritation

Serious eye damage/irritation:

Causes serious eye irritation

Germ cell mutagenicity:

No data available

Respiratory/Skin Sensitization:

Slightly irritating to respiratory system

Carcinogenicity:

Cumene possible carcinogenic

Reproductive toxicity:

No data available

Specific Target Organ Toxicity -Repeated Exposure:

Cause damage to organs (state all organs affected, if known) prolonged or repeated exposure (state route of exposure of it is conclusively proven that no other routes of exposure cause the hazard) may cause central nervous depression.

Specific Target Organ Toxicity - Single Exposure

May cause dizziness

Aspiration hazard:

May be fatal if swallowed and enters airways

Potential Health Effects - Miscellaneous

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidney, liver, respiratory system, skin. This substance may cause damage to any of the following organ/system: blood, central nervous system, eyes, kidney, liver, lung, and reproduction system skin. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

Component Name	LD 50	LC50
Cyclohexanone	ORAL – RAT – 1,534 MG/KG DERMAL – RABBIT – 794 -3-3,160	INHALATION RAT – 4 H -> 6.2 mg/l
PM ACETATE	Oral Rat 6,190 mg/kg Dermal Rat >2000 mg/kg Dermal Rabbit > 5000 mg/kg	Inhalation rat > 23.4 mg/l 6 hr
CUMENE		RAT 17.6 mg/l 2
1,2,4 – Trimethylbenzene		Rat 10,200 mg/m3
Xylene		Mouse 6 h, 3907 mg/l

SECTION 12) ECOLOGICAL INFORMATION

Bio-accumulative Potential:

No data available

Persistence and Degradability:

No data available

Mobility in Soil:

No data available

Toxicity:

Harmful to aquatic life

Other adverse effects:

No data available

SECTION 13) DISPOSAL CONSIDERATIONS**Waste Disposal Method:**

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue, which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purpose. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION**U.S. DOT information:**

Flammable Liquids, Flash Point at or above 27 ° C

Emergency Response Guide (ERG):

Emergency Response Guide 128

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
108-94-1	CYCLOHEXANONE	100 %	SARA 302/304 NO REPORTING REQUIRED SARA 311/312 ACUTE, CHRONIC, AND FIRE CERCLA SECTION 102 (A) 5000 LBS.
108-65-6	PM ACETATE	99.7 %	SARA 302/304 NOT REGULATED. SARA 311/312 HEALTH AND PHYSICAL HAZARDS SARA 313 NOT REGULATED FIRE HAZARD (ACUTE) HEALTH HAZARD

CAS	Chemical Name	% By Weight	Regulation List
0000123-86-4	BUTYL ACETATE	100.000 %	CERLCA, SARA 312, VOC, TSCA, OSHA

0000098	CUMENE	1.232% 1.362%	CERCLA,SARA312,SARA313,VOC,TSCA,RCRA,CA_TAC_TOX,CA_Carcinogen,NEI
0000526 -73-8	1,2,3 TRIMETHYLBE NZENE	9.241% 10.214%	SARA312,VOC,TSCA
0001330 20-7	XYLENE	1.232% 1.362%	CERCLA,SARA312,SARA313,VOC,IARCCarcinogen,TSCA,RCRA,CA_TAC_TOX,NEI
0064742 95-6	AROMATIC HYDROCARBO N MIXTURE >C9	63.554% 66.148%	SARA312,VOC,TSCA,OSHA

SECTION 16) OTHER INFORMATION

General:

Deco Technology Group, Inc. urge each customer or recipient of the SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. It is the Buyer's/User's responsibility to ensure that his activities comply with all Federal, State, Provincial or Local laws. The information presented here pertains only to the product as shipped. The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. NO warranty or guarantee is expressed or implied regarding the accuracy of this data or the results to be obtained from the use of the product.

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HEALTH	3
FLAMMABLE	3
REACTIVE	0
PERSONAL PROTECTION	H

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