

Material Safety Data Sheet

Section 1. Chemical product and company identification						
Common name	CASTROL CARECLEAN XHP	Code	11001-AM			
Supplier	CASTROL INDUSTRIAL NORTH AMERICA INC. 1001 WEST 31ST STREET	Validation date	12/08/2003			
	DOWNERS GROVE, IL 60515-1280 Product Information: 630 241-4000	Print date	12/08/2003			
Synonym	Not available.					
Trade name	CARECLEAN IS A TRADEMARK OF CASTROL INDUSTRIAL INC.	Responsible name	Product Stewardship			
Material uses	Industrial applications	In case of CHE	MTREC (800) 424-9300			
Manufacturer	CASTROL INDUSTRIAL NORTH AMERICA INC 1001 WEST 31ST STREET DOWNERS GROVE, IL 60515-1280	<u>emergency</u>				

Section 2. Composition, Information on Ingredients					
Name	CAS#	% by weight	Exposure limits		
POLY[OXYETHYLENE(DIMETHYLIMINIO DICHLORIDE]	31512-74-0	0.1-1	Not available.		
ETHANOL, 2,2',2"-NITRILOTRIS-	102-71-6	20-25	ACGIH (United States). TWA: 5 mg/m³ ACGIH TLV (United States, 2002). TWA: 5 mg/m³ 8 hour(s).		
BORIC ACID (H3BO3)	10043-35-3	5-10	Not available.		

Contina	2	Hazards identification	
Section	<	Hazarne inentitication	

Physical state / Appearance Liquid.

Slight Odor Clear. Yellow.

Emergency overview WARNING!

CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Avoid contact with eyes, skin and clothing. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Do not ingest. Keep container closed. Use with adequate ventilation. Wash

thoroughly after handling.

Routes of Entry Skin Contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eyes Causes eye irritation.

CASTROL CAREC	CLEAN XHP	Page: 2/7
Skin	Causes skin irritation.	
Inhalation	May cause respiratory tract irritation.	
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhea. Acute oral toxicit established.	y (LD50) Not
No additional remark.		
Potential chronic health effects	CARCINOGENIC EFFECTS: No component of this product at levels great identified as a carcinogen by ACGIH or the International Agency for Res (IARC). No component of this product present at levels greater than 0.1% carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Oc and Health Act (OSHA).	search on Cancer is identified as a ecupational Safety
	MUTAGENIC EFFECTS : No component of this product at levels grea classified by established regulatory criteria as a mutagen.	ter than 0.1% is
	TERATOGENIC EFFECTS : No component of this product at levels great classified by established regulatory criteria as teratogenic or embryotoxic.	ater than 0.1% is
Medical conditions aggravated by	Not available.	

Over-exposure Not available. signs/symptoms

overexposure:

See toxicological Information (section 11)

Section 4. First aid measures			
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.		
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, seek immediate medical attention.		
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.		
Notes to Physician	Not available.		

Section 5. Fire fighting measures				
Flammability of the product	Non-flammable.			
Auto-ignition temperatur	e Not available.			
Flash Point	Open cup: 178.89°C (354°F).			
Flammable limits	Not available.			
Products of combustion	carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂)			
Fire hazards in presence of various substances	Non-flammable.			
Explosion hazards in presence of various substances	This material is not explosive as defined by established regulatory criteria.			

CASTROL CARE	CLEAN XHP	Page: 3/7
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Cool closed containers exposed to fire with water.	
Protective clothing (fire)	Be sure to use an approved/certified respirator or equivalent.	
Special remarks on fire hazards	No additional remark.	
Special remarks on explosion hazards	No additional remark.	

Section 6. Accidental release measures			
Small spill and leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Dispose of according to all federal, state and local applicable regulations.		
Large spill and leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not allow any potentially contaminated water including rain water, runoff from fire fighting or spills to enter any waterway, sewer or drain. Dispose of according to all federal, state and local applicable regulations.		

Section 7. Handling and storage

Avoid contact with eyes, skin and clothing. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Do not ingest. Use with adequate ventilation. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

Section 8. Exposure Controls and Personal Protection

Engineering controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. In accordance with good

industrial hygiene and safety work practices, airborne exposures should be controlled to the

lowest extent practicable.

Personal protection

Eyes Safety glasses with side shields or chemical goggles.

Body Wear appropriate protective clothing to prevent skin contact.

Respiratory A respirator is not needed under

normal and intended conditions of product use. If ventilation is inadequate, use certified respirator that will protect against organic vapor.

Hands Impervious gloves.

Feet Not applicable.

Protective clothing (pictograms)



CASTROL CARECLEAN XHP Page: 4			Page: 4/7
Personal protection in case of a large spill	apparatus sho	es. Full suit. Vapor respirator. Boots. (ould be used to avoid inhalation of the pro ufficient; consult a specialist BEFORE hand	duct. Suggested protective clothing
Product Name		Exposure limits	
POLY[OXYETHYLENE(DIMETHYLIMINI	O)ETH\ Not available.	
DICHLORIDE]			
ETHANOL, 2,2',2"-NITR	ILOTRIS-	ACGIH (United States).	
		TWA: 5 mg/m ³	
		ACGIH TLV (United States, 2002	2).
		TWA: 5 mg/m ³ 8 hour(s).	
BORIC ACID (H3BO3)		Not available.	

Section 9. Physical and chemical properties						
Physical state / Appearance	Liquid.	Odor	Slight Odor			
Boiling/condensation poin	tNot available.	Taste	Not available.			
Melting/freezing point	Not available.	Color	Clear. Yellow.			
pH (Concentration)	7.8 to 8.6 (Conc. (% w/w): 100) [Basic.]					
pH Dilution % and Value	7.5 to 8.5 at 3%					
Critical temperature	Not available.					
Specific Gravity	1.1 to 1.12 (Water = 1)					
Vapor pressure	Not available.					
Vapor density	Not available.					
Volatility	44.3% (v/v).					
Odor threshold	Not available.					
Evaporation rate	Not available.					
voc	Not determined.	VOC Method	Not available.			
Viscosity	Not available.					
Dispersion properties	See solubility in water, methanol.					
Solubility	Easily soluble in cold water, hot water.					
Physical chemical comments	Not available.					

Section 10. Stability and reactivity					
Stability and Reactivity	The product is stable.				
Conditions of instability None known.					
Incompatibility with various substances	Strong oxidizing materials				
Hazardous Decomposition carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂) Products					

Continued on next page

Consult local authorities for acceptable exposure limits.

CASTE	SOL	CAR	FCI	FΔI	NY	HP
VASII	106	\mathbf{v}			V	

Hazardous polymerization Will not occur.

Section 11. Toxicological information

Acute oral toxicity (LD50): 2200 mg/kg [Guinea pig]. (triethanolamine). Toxicity to animals

Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. (boric acid).

Acute toxicity of the dust (LC50): >160 mg/m³ 4 hour(s) [Rat]. (boric acid).

Chronic effects on humans CARCINOGENIC EFFECTS: No component of this product at levels greater than 0.1% is

identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety

Page: 5/7

and Health Act (OSHA).

MUTAGENIC EFFECTS: No component of this product at levels greater than 0.1% is

classified by established regulatory criteria as a mutagen.

TERATOGENIC EFFECTS: No component of this product at levels greater than 0.1% is

classified by established regulatory criteria as teratogenic or embryotoxic.

DEVELOPMENTAL TOXICITY. Not available.

Other Toxic Effects on

Humans

Very hazardous in case of eye contact (irritant).

Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).

Special remarks on toxicity to animals

Based on animal studies Contains material (CASRN 102-71-6) which may cause damage to

the following organs: kidneys, liver.

Alkanolamine: This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens.

Therefore, no nitrites or related nitrosating agents should be added to such compositions.

Special remarks on

chronic effects on humans

No additional remark.

Special Remarks on Other No additional remark.

Toxic Effects on Humans

Section 12. Ecological information

Ecotoxicity Not available.

Not available. **BOD** and **COD**

Biodegradable/OECD Not available.

Mobility Not available.

carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...) Products of degradation

Toxicity of the products of Not available

biodegradation

Special remarks on the

Not available.

products of biodegradation

Section 13. Disposal considerations

Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Waste information

Keep out of waterways. Dispose of according to all federal, state and local applicable regulations.

RCRA Waste Code(s)

Not available. Waste stream

Consult your local or regional authorities.

CASTROL CARE	CLEAN XHP	Page: 6/7	
Section 14. Transport information			
DOT Classification			
	Not regulated.		
Marine Pollutant	Not pollutant.		
Special Provisions for Transport	None identified.		
ADR/RID Classification	Not determined.		
IMO/IMDG Classification Not regulated.			
ICAO/IATA ClassificationNot regulated.			
Section 15. Regulatory information			
U.S. Federal regulations	TSCA 8(a) PAIR: triethanolamine		
c.s. reactar regulations	TSCA precursor chemical list: triethanolamine		
	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: CASTROL CARECLEAN XHP: immediate health hazard. SARA 313 toxic chemical notification and release reporting: No products were found.		
	Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No Clean air act (CAA) 112 regulated toxic substances: No pro Clean air act (CAA) 112 regulated flammable substances:	oducts were found.	
State regulations	Pennsylvania RTK: DI-ISOPROPANOLAMINE (generic environmental hazard); triethanolamine (generic environmental hazard) Florida: triethanolamine Minnesota: triethanolamine Massachusetts RTK: DI-ISOPROPANOLAMINE; triethanolamine		
	California prop. 65: No products were found.		
Inventory Lists	TSCA 8(b) inventory: In compliance.		
	CEPA DSL: In compliance.		
	Australia (NICNAS): In compliance.		
	Korea (TCCL): Not determined.		
	Philippines (RA6969): Not determined.		
	MITI: Not determined.		
	EINECS: In compliance.		

Section 16. Other information

Label Requirements

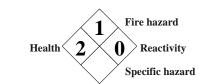
CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Hazardous Material Information System (U.S.A.)

Health	1
Fire hazard	
Reactivity	
Personal protection	

National Fire Protection Association (U.S.A.)



References

Not available.

Validated by Product Stewardship on 12/08/2003.

Other special considerations

HMIS rating based upon recommended in-use dilutions. NFPA rating based upon the undiluted product-concentrate.

Printed. (PrintDate(12/08/2003.

CHEMTREC (800) 424-9300

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.