



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084088

CATALYST FOR KLEENMOLD BASE 10

Date of the previous version: 2015-06-23

Revision Date: 2015-07-21

Version 2

1. IDENTIFICATION

Product identifier

Product name CATALYST FOR KLEENMOLD BASE 10

Other means of identification

Product Code(s) 084088

Number 8XN
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Lubricant. Industrial applications .

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address USRMLIN-info@total.com

Emergency telephone number

Company Phone Number +1 (908) 862-9300
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids - Category 4
Skin corrosion/irritation - Category 1 - Subcategory B
Serious eye damage/eye irritation - Category 1
Skin sensitization - Category 1
Reproductive toxicity - Category 2

Label elements

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DANGER

Hazard Statements

Combustible liquid
 Causes severe skin burns and eye damage
 May cause an allergic skin reaction
 Suspected of damaging fertility or the unborn child

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
 Specific treatment (see Section 4 on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician

Skin

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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Unknown Acute Toxicity

5% of the mixture consists of ingredient(s) of unknown toxicity

Hazards not otherwise classified (HNOC)

- None known

Other information

- Contaminated surfaces will be extremely slippery
- Should not be released into the environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Phenol, 4-nonyl-, branched	84852-15-3	5-10
3,6-diazaoctanethylenediamin	112-24-3	5-10

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract. Remove casualty to fresh air as quickly as possible. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and afterwards drink plenty of water. Immediate medical attention is required.

Most important symptoms/effects, acute and delayed

Skin contact	Toxic in contact with skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Inhalation	Vapors may irritate throat and respiratory system.

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Ingestion	Harmful if swallowed. May damage fertility or the unborn child.
Symptoms	Redness. Asthma-like and/ or skin allergy-like symptoms. Difficulty breathing. Coughing and/ or wheezing. Burning. Rashes. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Cool containers / tanks with water spray. Use: Dry chemical. Carbon dioxide (CO ₂). Water spray. Alcohol-resistant foam. Foam. ABC powder.
Uniform Fire Code	Combustible Liquid: III-A CORROSIVE: BASE-LIQUID Sensitizer: Liquid
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
<u>Special Hazard</u>	Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
Hazardous Combustion Products	Nitrogen oxides (NO _x). Carbon oxides. Ammonia.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective Equipment and Precautions for Firefighters</u>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Information	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges, Heat, flames and sparks. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
<u>Environmental precautions</u>	

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Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ground and bond containers when transferring material. 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). Keep in suitable, closed containers for disposal. Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid static electricity build up with connection to earth. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from open flames, hot surfaces and sources of ignition. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

Prevention of fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems). OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION). Do not use compressed air for filling, discharging or handling. Empty containers may contain flammable or explosive vapors.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Use personal protective equipment as required. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Do not wash off with: Fuel. Solvent. Abrasive. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from open flames, hot surfaces and sources of ignition. Cylinders should be protected from sunlight and stored in a cool and well-ventilated place.

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Materials to Avoid Strong oxidizing agents, Acids, Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits We are not aware of any national exposure limit.

Exposure controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

General Information Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Use personal protective equipment as required. Wash hands with water as a precaution. Avoid breathing vapors, mist or gas. Do not wash off with: Fuel. Solvent. Abrasive. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance	limpid
Color	amber
Physical State @20°C	liquid
Odor	Ammoniacal
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	11 - 12	@ 20 °C	
Melting point/range		No information available	
Boiling point/boiling range	> 200 °C > 392 °F		
Flash point	93 °C 199 °F		ASTM D 93 ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-	No information available	
Lower	-	No information available	
Vapor Pressure	0.14 hPa	@ 20 °C	
Vapor density	> 1 (Air = 1)		
Relative density	1.007	@ 25 °C	
Density	0.983 - 1.031 g/cm3	@ 25 °C	
Water solubility		slightly soluble	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic		Not applicable	
Explosive properties	No information available		
Oxidizing Properties	No information available		
Possibility of hazardous reactions	See section 10		
<u>Other information</u>			
Freezing Point		No information available	

10. STABILITY AND REACTIVITY

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<u>Reactivity</u>	No information available.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	Contact with acids liberates very toxic gas. None under normal processing.
<u>Conditions to Avoid</u>	Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents. Heating can release hazardous gases.
<u>Incompatible Materials</u>	Strong oxidizing agents, Acids, Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.
<u>Hazardous Decomposition Products</u>	Thermal decomposition can lead to release of irritating gases and vapors. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot, Ammonia, Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information

Skin contact	Toxic in contact with skin. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Inhalation	Vapors may irritate throat and respiratory system.
Ingestion	Harmful if swallowed. May damage fertility or the unborn child.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	5% of the mixture consists of ingredient(s) of unknown toxicity
ATEmix (oral)	14120 mg/kg
ATEmix (dermal)	11000 mg/kg

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol, 4-nonyl-, branched 84852-15-3	1412 mg/kg bw (rat-ECHA)		
3,6-diazaoctanethylenediamin 112-24-3		ATE (CAT4)	

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Information on toxicological effects

Symptoms Redness. Asthma-like and/ or skin allergy-like symptoms. Difficulty breathing. Coughing and/ or wheezing. Burning. Rashes. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Risk of serious damage to eyes.
Sensitization May cause sensitization by skin contact. May produce an allergic reaction.
Carcinogenicity This product is not classified carcinogenic.

Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity Suspected of damaging fertility or the unborn child.
Other adverse effects Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
Aspiration Hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

No experimental data available

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Phenol, 4-nonyl-, branched 84852-15-3	LC50 (72h) 0,0563 mg/l alguea	LC50(96h) = 0.1383 mg/l Pimephales promelas LC50(96h) 0.14-0.23 Oncorhynchus mykiss	EC50 (48h) 0,035 mg/l daphnia magna	

Chronic aquatic toxicity - Product Information

No experimental data available

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Phenol, 4-nonyl-, branched 84852-15-3			NOEC (91d) 0.006 mg/l Oncorhynchus mykiss	

Effects on terrestrial organisms No experimental data available .

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Persistence and degradability

General Information No information available.

Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information No information available.

Mobility

Soil No information available

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers. Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN/ID No	UN3267
Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Special Provisions	B2, IB2, T11, TP2, TP27
Marine pollutant	P - This product contains a chemical which is listed as a marine pollutant according to DOT.
Description	UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II

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TDG

UN/ID No UN3267
Proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard class 8
Packing Group II
Special Provisions 16
Description UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
 (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II

MEX

UN/ID No UN3267
Proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard class 8
Special Provisions 274
Packing Group II
Description UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
 (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II

ICAO/IATA

UN/ID No UN3267
Proper shipping name Corrosive liquid, basic, organic, n.o.s.
Hazard class 8
Packing Group II
Special Provisions A3, A803
Description UN3267, Corrosive liquid, basic, organic, n.o.s. (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II

IMDG/IMO

UN/ID No UN3267
Proper shipping name Corrosive liquid, basic, organic, n.o.s.
Hazard class 8
Packing Group II
EmS No. F-A, S-B
Special Provisions 274
Description UN3267, Corrosive liquid, basic, organic, n.o.s. (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II
Excepted Quantity E2
Limited quantity 1 L

ADR/RID

UN/ID No UN3267
Proper shipping name CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard class 8
Packing Group II
Classification Code C7
Tunnel Restriction Code (E)
Special Provisions 274

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Description	UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II, (E)
Environmental hazard	Yes

ADN

Proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard class	8
Packing Group	II
Classification Code	C7
Special Provisions	274
Description	UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3,6-diazaoctanethylenediamin, Phenol, 4-nonyl-, branched), 8, II
Hazard Labels	8
Limited quantity	1 L

15. REGULATORY INFORMATION

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:
U.S.A. (TSCA)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

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California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
3,6-diazaoctanethylenediami n 112-24-3	X	X	X		

16. OTHER INFORMATION

NFPA	Health Hazard 3	Flammability 2	Instability 1	Physical and chemical hazards -
HMIS	Health Hazard 3	Flammability 2	Physical Hazard 1	Personal protection X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-07-21
Revision Note No information available
Abbreviations, acronyms

Legend

Section 8
 ACGIH - American Conference of Governmental Industrial Hygienists
 OSHA - Occupational Safety and Health Administration
 NIOSH - National Institute for Occupational Safety and Health
 TLV - Threshold Limit Values
 PEL - Permissible Exposure Limits
 IDHL - Immediately Dangerous to Life or Health concentrations
 TWA - Time Weight Average
 STEL - Short Term Exposure Limits
 S* - Skin notation
 TSCA - Toxic Substance Control Act

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet

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