

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Product name: Eastman Tenox(TM) 25 Food-Grade Antioxidant, Kosher

Product No.: EAN 970993. 13385-00, P1338500, P1338502, P1338504, P1338503

 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: antioxidant (food grade) Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet Manufacturer / Supplier

Eastman Chemical Company 200 South Wilcox Drive Kingsport, TN 37660-5280 US +14232292000

Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

National Supplier

Eastman Chemical B.V. Fascinatio Boulevard 602-614 2909 Capelle aan den IJssel The Netherlands Telephone: (31) 10 2402 111 Fax: (31) 10 2402 100

1.4 Emergency telephone number:

For emergency health, safety, and environmental information: telephone 800-EASTMAN or 423 229-4511 in the United States; or +44 (0)1235 239 670 in Europe.

For emergency transportation information, call 423-229-4511 in the United States; 800 964214 in England; or +44(0)1235 239 670 in the other European countries. Identify the call as a transportation emergency.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Regulation No. 1272/2008.

Health hazards

H315: Causes skin irritation.



Serious eye damage/eye irritation		Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Skin sensitizer		H317: May cause an allergic skin reaction.
Environmental hazards			
Chronic hazards to the aque environment	atic	Category 2	H411: Toxic to aquatic life with long lasting effects.
Hazard summary Physical hazards:	Not cla	ssified as hazard	dous.
Health hazards Inhalation:	None k	known.	
Eye contact:	Causes	s serious eye irri	tation.
Skin contact:	Causes	s skin irritation. N	lay cause an allergic skin reaction.
Ingestion:	None k	known.	
Other Health Effects:	None k	known.	
Environmental hazards:		o aquatic organis environment.	sms, may cause long-term adverse effects in the

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

X: Irritant
 N: Dangerous for the environment
 R43: May cause sensitisation by skin contact.
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Signal words:

WARNING!

Hazard Statement(s):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment.



Response:P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical
advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with
water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing. P337+P313: If eye irritation persists: Get
medical advice/attention.

2.3 Other hazards: None known.

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
corn oil	31%	CAS-No.: 8001-30-7	
		EC No.: 232-281-2	
emulsifier	31%	proprietary	
propylene glycol	15%	CAS-No.: 57-55-6	#
propjione gijeer	10,0	EC No.: 200-338-0	
butylated hydroxytoluene	10%	CAS-No.: 128-37-0	#
		EC No.: 204-881-4	
2-tert-butylhydroquinone	10%	CAS-No.: 1948-33-0	
	10,0	EC No.: 217-752-2	
citric acid	3%	CAS-No.: 77-92-9	
	370	EC No.: 201-069-1	

Explanation for Notes (if applicable):

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has w orkplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classificatio	on	Notes
corn oil	DSD:	This substance is not classified according to Directive 67/548/EEC.	
	CLP:	NOT CLASS ,	
emulsifier	DSD:	This substance is not classified according to Directive 67/548/EEC.	
	CLP:	NOT CLASS ,	



propylene glycol	DSD:	This substance is not classified according to Directive 67/548/EEC.	
	CLP:	NOT CLASS ,	
butylated hydroxytoluene	DSD:	N, R50/53	
	CLP:	Aquatic Acute 1, H400; Aquatic Chronic1, H410	
2-tert-butylhydroquinone	DSD:	Xn, N, R21/22, R36/38, R43, R50/53	
	CLP:	Acute Tox. 4, H302; Acute Tox.4, H312; Skin Corr.2, H315; Eye Dam.2, H319; Skin Sens.1B, H317; Aquatic Acute1, H400; Aquatic Chronic1, H410	
citric acid	DSD:	Xi, R36/37	
DSD: Directive 67/548/EEC	CLP:	Eye Dam. 2, H319; STOT SE3, H335	

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.:

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

SECTION 5: Firefighting measures		
Treatment:	Treat symptomatically.	
Hazards:	None known.	
4.3 Indication of any immediate r	nedical attention and special treatment needed	
4.2 Most important symptoms and effects, both acute and delayed:	Allergic rash. May irritate and cause redness and pain.	
Ingestion:	Seek medical advice.	
Skin contact:	Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.	
Inhalation:	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.	

General fire hazards: None known.



5.1 Extinguishing media

Suitable extinguishing media:	Water spray. Dry chemical. Carbon Dioxide. Alcohol foam.
Unsuitable extinguishing media:	None known.
5.2 Special hazards arising from the substance or mixture:	None known.
5.3 Advice for firefighters Special fire fighting procedures:	None known.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment.
6.2 Environmental precautions:	Avoid release to the environment.
6.3 Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
7.2 Conditions for safe storage, including any incompatibilities:	Keep container closed. Keep from freezing.
7.3 Specific end use(s):	antioxidant (food grade)



SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical name	Туре	Exposure Limit values	Source
propylene glycol - Particulate.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
propylene glycol - Total vapour and particulates.	TWA	150 ppm 474 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)
butylated hydroxytoluene	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:	Eye bath. Washing facilities. Safety shower.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection Hand protection:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Other:	No data available.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Observe good industrial hygiene practices.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties



9.1 Information on basic physical and chemical properties

Appearance	
Physical State:	Liquid
Form:	Viscous Liquid
Color:	Amber
Odor:	slight
Odor Threshold:	Not determined.
pH:	No data available.
Melting Point	No data available.
Boiling Point:	215 °C
Flash Point:	113 °C (method unspecified) (estimated)
Evaporation Rate:	Not determined.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)–:	No data available.
Flammability Limit - Lower (%)–:	No data available.
Vapor pressure:	Not determined.
Vapor density (air=1):	Not available.
Specific Gravity:	0.938 (20 °C)
Solubility(ies)	
Solubility in Water:	Appreciable
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Thermal stability not tested. Low stability hazard expected at normal operating temperatures.
Dynamic Viscosity:	190 mPa.s (25 °C)
Kinematic viscosity:	202.5 mm2/s(Estimated)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	None known. Materials containing similar structural groups are normall stable.	ly
10.2 Chemical stability:	Not fully evaluated.	
10.3 Possibility of hazardous reactions:	None known.	
10.4 Conditions to avoid:	None at ambient temperatures.	
10.5 Incompatible materials:	Strong oxidizing agents.	
10.6 Hazardous decomposition products:	Carbon Dioxide. Carbon Monoxide.	
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SECTION 11: Toxicological information

Information on likely routes of exposure Inhalation: None known.	
Ingestion:	None known.
Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation.
11.1 Information on toxicologica	leffects
Acute Toxicity	
Oral Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid Dermal Product: Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	Oral LD-50: (Rat): > 92,000 mg/kg No data available. Oral LD-50: (Rat): 22,000 mg/kg Oral LD-50: (Rat): > 6,000 mg/kg Oral LD-50: (Rat, Male.): 951 mg/kg Oral LD-50: (Rat, Female.): 1,131 mg/kg Oral LD-50: (Rat): 2,263 mg/kg No data available. No data available. Dermal LD-50: (Rabbit): > 2,000 mg/kg Dermal LD-50: (Guinea Pig): > 20,000 mg/kg Dermal LD-50: (Guinea Pig): > 1,000 mg/kg Dermal LD-50: (Rat): > 1,000 mg/kg
Inhalation Product: Specified substance(s) corn oil	No data available. No data available.
emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. LC50 (Rat, 2 h): > 317 mg/l (highest concentration tested) No data available. No data available. No data available.



Repeated dose toxicity Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. No data available. No data available. No data available. No data available.
Skin corrosion/irritation: Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. (Rabbit, 24 h): none (Rabbit, 24 h): very slight (Guinea Pig, 24 h): moderate (Rabbit, 24 h): Slight
Serious eye damage/eye irritation: Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. (Rabbit): very slight (Rabbit): none (Rabbit): Strongly irritating. (Rabbit, 24 h): moderate to strong
Respiratory or skin sensitization: Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. Skin Sensitization:, (Human) - Not a skin sensitizer. Skin Sensitization:, (Guinea Pig) - non-sensitizing Skin Sensitization:, (Guinea Pig) - slight Skin Sensitization:, (Human) - slight No data available.



Mutagenicity

In vitro Product:

Specified substance(s)

corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid

In vivo Product:

Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid

Carcinogenicity Product:

Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone

Reproductive toxicity Product:

citric acid

Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid

Specific target organ toxicity - single exposure Product: No data available.

Specified substance(s) corn oil No data available. emulsifier No data available. propylene glycol No data available. ©COPY RIGHT 2014 BY EASTMAN CHEMICAL COMPANY

No data available.

No data available. No data available. No data available. No data available. No data available. No data available.

No data available.

No data available. No data available. No data available. No data available. No data available. No data available.

No data available.

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No data available.

No data available. No data available. No data available. No data available. No data available. No data available.



butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. Inhalation: Respiratory tract irritation. Dermal: Skin Inhalation: Respiratory tract irritation.
Specific target organ toxicity Product:	- repeated exposure No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. No data available. No data available. No data available. No data available.
Aspiration hazard Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. No data available. No data available. No data available. No data available.
Other adverse effects:	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity	
Fish Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. LC-50 (Oncorhynchus mykiss, 96 h): 40,613 mg/l LC-50 (Fish, 96 h): 0.199 mg/l LC-50 (Fathead Minnow, 96 h): 0.6 mg/l LC-50 (Fish, 48 h): 440 mg/l
Aquatic invertebrates Product:	No data available.
Specified substance(s) corn oil emulsifier	No data available. No data available.

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propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	LC-50 (Ceriodaphnia, 48 h): 18,340 mg/l EC-50 (daphnid, 48 h): 0.48 mg/l LC-50 (Water Flea, 96 h): 3.2 mg/l LC-50 (snail, 96 h): 32 mg/l LC-50 (flatworm, 96 h): 3.2 mg/l LC-50 (daphnid, 24 h): 1,535 mg/l
Chronic Toxicity	
Fish Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. No data available. No data available. No data available. No data available.
Aquatic invertebrates Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. No data available. No data available. No data available. No data available.
Toxicity to Aquatic Plants Product:	No data available.
Specified substance(s) corn oil emulsifier propylene glycol butylated hydroxytoluene 2-tert-butylhydroquinone citric acid	No data available. No data available. EC-50 (Alga, 72 h): 19,300 mg/l EC-50 (Alga, 96 h): 0.758 mg/l No data available. No data available.
12.2 Persistence and degradabilit	ty

Biodegradation
Product:No data available.Specified substance(s)No data available.corn oilNo data available.emulsifierNo data available.propylene glycol81.7 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradablebutylated hydroxytoluene
2-tert-butylhydroquinone19 % (28 d)

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citric acid

97 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable

Biological Oxygen Demand: Product	No data available.
Specified substance(s)	No data available.
corn oil	No data available.
emulsifier	BOD-5: 1,080 mg/g
propylene glycol	BOD-20: 1,225 mg/g
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	BOD-5: 70 mg/g
	BOD-20: 2,000 mg/g No data available.
citric acid	
Chemical Oxygen Demand: Product	No data available.
	no dala avallable.
Specified substance(s)	
corn oil	No data available.
emulsifier	No data available.
propylene glycol	1,630 mg/g
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	2,200 mg/g No data available.
citric acid	No data avallable.
BOD/COD ratio Product	No data available.
Specified substance(s)	
corn oil	No data available.
emulsifier	No data available.
propylene glycol	No data available.
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	No data available.
citric acid	No data available.
12.3 Bioaccumulative potential	
Product:	No data available.
Specified substance(s)	
corn oil	No data available.
emulsifier	No data available.
propylene glycol	No data available.
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	No data available.
citric acid	No data available.
12.4 Mobility in soil:	No data available.
Known or predicted distribut	ion to environmental compartments

corn oil No data available. emulsifier No data available. ©COPY RIGHT 2014 BY EASTMAN CHEMICAL COMPANY



propylene glycol	No data available.
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	No data available.
citric acid	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
corn oil	No data available.
emulsifier	No data available.
propylene glycol	No data available.
butylated hydroxytoluene	No data available.
2-tert-butylhydroquinone	No data available.
citric acid	No data available.
	N I I I I I I I I I I

12.6 Other adverse effects:

No data available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	No data available.
Disposal methods:	Dispose of waste and residues in accordance with local authority requirements. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

European Waste Codes

Comply with requirements of waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

ADR/RID

Class 9, Packing Group III

Possible Shipping Description(s):

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (butylated hydroxytoluene,2-tert-butylhydroquinone) 9 III

IMDG - International Maritime Dangerous Goods Code



Marine pollutant.: (butylated hydroxytoluene, 2-tert-butylhydroquinone)

Possible Shipping Description(s):

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (butylated hydroxytoluene,2-tert-butylhydroquinone) 9 III

ΙΑΤΑ

Class not regulated Possible Shipping Description(s):

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (butylated hydroxytoluene,2-tert-butylhydroquinone) 9 III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product is permitted under existing FDA regulations for use as a direct (or an indirect) food additive.

TSCA (US Toxic Substances Control Act): All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): All components of this product are listed on AICS or otherwise comply with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All components of this product are listed in the Handbook or have been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS) : All components of this product are listed on the Philippine inventory or otherwise comply with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

15.2 Chemical safety None. assessment:



SECTION 16: Other information

Revision Information:	Not relevant.
Key literature references and sources for data:	No data available.
Wording of the R-phrases and H-statements in section 2 and 3:	N = Dangerous for the environment R50/53 = Very toxic to aquatic organisms, may cause long-termadverse effects in the aquatic environment. Xn = Harmful N = Dangerous for the environment R21/22 = Harmful in contact with skin and if sw allow ed. R36/38 = Irritating to eyes and skin. R43 = May cause sensitisation by skin contact. R50/53 = Very toxic to aquatic organisms, may cause long-termadverse effects in the aquatic environment. Xi = Irritant R36/37 = Irritating to eyes and respiratory system. NOT CLASS = Not classified
	Aquatic Acute = Acute hazards to the aquatic environment Aquatic Chronic = Chronic hazards to the aquatic environment 1 = Category 1 1 = Category 1 H400= Very toxic to aquatic life. H410= Very toxic to aquatic life with long lasting effects. Acute Tox. = Acute toxicity Acute Tox. = Acute toxicity Skin Corr. = Skin corrosion/irritation Eye Dam. = Serious eye damage/eye irritation Skin Sens. = Skin sensitizer Aquatic Chronic = Chronic hazards to the aquatic environment Aquatic Chronic = Chronic hazards to the aquatic environment 4 = Category 4 4 = Category 2 2 = Category 1 1 = Category 1 1 = Category 1 H302= Harmful if sw allowed. H312= Harmful if sw allowed. H312= Harmful if sw allowed. H312= Harmful in contact with skin. H315= Causes skin irritation. H317= May cause an allergic skin reaction. H400= Very toxic to aquatic life. H410= Very toxic to aquatic life. Eye Dam. = Serious eye damage/eye irritation STOT ISE = Specific torract organ toxicity e, sindle apposure
	STOT SE = Specific target organ toxicity - single exposure 2 = Category 2 3 = Category 3 H319= Causes serious eye irritation. H325= May cause respiratory irritation
	H335= May cause respiratory irritation.



Training information:

Issue date: SDS No.: Disclaimer: No data available.

14.07.2014

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.