Substance key: COV200202	Revision Date: 07/07/2015
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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704-331-7000 **Information of the substance/preparation:** Product Stewardship 1-704-331-7710 **Emergency tel. number:** +1 800-424-9300(CHEMTREC)

Trade name:	**HOSTASTAT 154**
Material number:	159100
Synonyms:	Fatty Alkonalamide
Primary product use:	Antistatic Agent For Plastics
Chemical family:	Surface Active Agent

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Specific target organ toxicity - repeated exposure	:	Category 2

GHS Label element

Hazard pictograms :

Signal word : Warning

Hazard statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Diethanolamine	111-42-2	<= 2
Hostastat 154	Not Assigned	<=

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : If swallowed, DO NOT induce vomiting.
Do not give anything to drink.
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.

Notes to physician	:	None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Dry chemical Foam Carbon dioxide (CO2) Water mist
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	In case of fire hazardous decomposition products may be produced such as: Nitrogen oxides (NOx) Ammonia Burning produces noxious and toxic fumes.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Special protective equipment for firefighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Contaminated surfaces will be extremely slippery. Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak, remove all sparking devices or ignition sources, collect onto inert absorbent, and place in a suitable container. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Technical measures/Precautions	:	Store in a cool, dry location away from heat, sparks and open flames. Store in original container. Keep container tightly closed. Do not freeze.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diethanolamine	111-42-2	TWA (Inhalable fraction and vapor)	1 mg/m3	ACGIH
	Further information: Liver damage, Kidney damage, Confirmed animal carcinogen with unknown relevance to humans, Danger of cutaneous absorption			
		TWA	3 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 15 mg/m3	OSHA P0

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Chemical splash goggles or safety glasses with full face shield

Skin and body protection : Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : White to off-white

Odour : not specified

Odour Threshold : not determined

pH : 9 - 11
1% solution in de-ionised water

Freezing point : 36 - 39 ℃

Boiling point	:	150 ℃ 359.6 ℉
Flash point	:	> 93.9 ℃ Method: PMCC
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	not determined
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	see user defined free text
Relative vapour density	:	Not applicable
Density	:	0.9856 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	no data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Strong oxidizing agents
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition	:	No decomposition if stored and applied as directed.

products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity

Product:

Acute oral toxicity	:	LD50: > 500 - 5,000 mg/kg

Components:

Diethanolamine:

Acute oral toxicity	:	LD50 (Rat, male and female): approx. 1,600 mg/kg Method: OECD Test Guideline 401 GLP: no LD50 (Rat): 710 mg/kg
Acute inhalation toxicity	:	LC0 (Rat, male): 3.35 mg/l Exposure time: 4 h Method: OECD Test Guideline 403 GLP: no Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): 12,970 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit
Result: irritating

Components:

Diethanolamine:
Species: Rabbit
Exposure time: 1 - 20 h
Method: OECD Test Guideline 404
Result: Skin irritation
GLP: no

Serious eye damage/eye irritation

Product:

Species: rabbit eye
Result: irritating

Components:

Diethanolamine:
Species: rabbit eye
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation

Components:

Diethanolamine:
Test Type: Guinea pig maximization test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: non-sensitizing
GLP: yes

Germ cell mutagenicity

Components:

Diethanolamine:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay
Species: mouse lymphoma cells
Concentration: 25 - 600 µg/ml
Metabolic activation: with and without
Method: OECD Test Guideline 476
Result: negative
GLP: yes

: Test Type: Ames test
Species: Salmonella typhimurium
Concentration: 125 - 4000 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: no

: Test Type: Ames test
Species: Escherichia coli
Concentration: 125 - 4000 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: no

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: B6C3F1
Cell type: Erythrocyten
Application Route: Drinking water

Exposure time: 13 w
Dose: 80 - 1250 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity

Components:

Diethanolamine:

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

IARC Listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Components:

Diethanolamine:

Effects on fertility :

Test Type: Two generation study
Species: Rat
Sex: male and female
Dose: 100 - 300 - 1000 mg/kg
Frequency of Treatment: daily
Group: yes
NOAEL: 300 mg/kg,
F1: 1,000 mg/kg,
F2: 1,000 mg/kg,
Method: OECD Test Guideline 416
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Species: Rat
Application Route: oral (gavage)
Exposure time: gestation d 6 - postnatal d 19
Dose: 50-125-200-250-300 mg/kg
Group: yes
50 mg/kg
50 mg/kg
Number of exposures: daily
Test period: 40 d
Method: Other
GLP: No information available.
Species: Rat
Application Route: Dermal

Exposure time: gestation day 6 -15
Dose: 150 - 380 - 500 - 1500 mg/kg
Group: yes
> 1,500 mg/kg
Number of exposures: 6 h/day
Test period: gestation day 0-21
Method: OECD Test Guideline 414
GLP: No information available.
Species: Rabbit
Application Route: Dermal
Exposure time: gestation days 6 - 18
Dose: 135 - 100 - 350 mg/kg
Group: yes
> 350 mg/kg
35 mg/kg
Number of exposures: 6 h/day
Test period: gestation days 0-29
Method: OECD Test Guideline 414
GLP: No information available.
Species: Rat
Application Route: Inhalation
Exposure time: gestation day 6 - 15
Dose: 10 - 50,2 - 202 mg/m3
Group: yes
>= 0.2 mg/l
0.05 mg/l
Number of exposures: 6 h/day
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : Classification as "toxic for reproduction" is not justifiable.
Classification as "teratogenic" is not justifiable.

STOT - single exposure

Components:

Diethanolamine:
Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Diethanolamine:
Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Diethanolamine:
Species: Rat, male
LOAEL: 25 mg/kg
Application Route: Drinking water

Exposure time: 13 w
Number of exposures: daily
Dose: 320-630-1250-2500-5000 ppm
Group: yes
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, female
LOAEL: 14 mg/kg
Application Route: Drinking water
Exposure time: 13 w
Number of exposures: daily
Dose: 160-320-630-1250-2500 ppm
Group: yes
Method: OECD Test Guideline 408
GLP: yes

Aspiration toxicity

Components:

Diethanolamine:
No aspiration toxicity classification

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Remarks: see user defined free text

LC50 (Pimephales promelas (fathead minnow)): 1.01 mg/l
Exposure time: 96 h
Remarks: see user defined free text

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia spec.): 61.8 - 86.04 mg/l
Exposure time: 48 h
Remarks: see user defined free text

Toxicity to algae :
Remarks: no data available

Components:

Diethanolamine:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,370 - 1,550 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: Other GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 30.1 - 89.9 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: Other GLP: No information available. Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l End point: Growth rate Exposure time: 14 d Test Type: static test Analytical monitoring: no data available Method: EPA GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.78 mg/l Exposure time: 21 d End point: Reproduction rate Test Type: semi-static test Analytical monitoring: yes Method: Other GLP: yes
Toxicity to bacteria	:	EC20 (activated sludge, domestic): > 1,000 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 0.5 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 209 GLP: no Remarks: The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Product:

Biodegradability	:	Remarks: no data available

Components:

Diethanolamine:

Biodegradability : aerobic
Inoculum: activated sludge, domestic, non-adapted
Concentration: 100 mg/l
BOD in % of theoretical OD
Result: Readily biodegradable
Biodegradation: 93 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Bioaccumulative potential

Components:

Diethanolamine:

Bioaccumulation : Remarks: Low potential for bioaccumulation (log Pow < 3).

Partition coefficient: n-octanol/water : log Pow: -2.46 (25 °C)
pH: 6.8 - 7.3
Method: OECD Test Guideline 107
GLP: no

Mobility in soil

Components:

Diethanolamine:

Mobility : Remarks: Known distribution to environmental compartments

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 1.25 - 1.27
Method: calculated

Other adverse effects

Components:

Diethanolamine:

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : Do not allow to enter ground water, waterways or waste water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : No -- Not as sold.

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Diethanolamine	111-42-2	100	5000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This product contains the chemical or chemicals listed below which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR Part 372:

Diethanolamine	111-42-2	2 %

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

None known.

Revision Date : 07/07/2015

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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