Substance key: KS13921	Revision Date: 07/28/2021
Version : 2 - 4 / USA	Date of printing :12/06/2021

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Plastics & Coatings (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000 **Information of the substance/preparation:** Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com **Emergency tel. number:** +1 800-424-9300 CHEMTREC

Trade name:	**HOSTAVIN 3058 LIQ**
Material number:	103425
CAS number:	106917-31-1
Primary product use:	Class of additive: Light stabilizer
Chemical family:	N-ACETYL-3-DODECYL-1-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) PYRROLIDINE-2,5-DIONE

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin irritation	:	Category 2
Skin sensitisation	:	Category 1

GHS label elements

Hazard pictograms :

Signal word	:	Warning
Hazard statements	:	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
Precautionary statements	:	**Prevention:** P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. **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.
P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Avoid contact with skin and eyes.
No additional hazards are known except those derived from the labelling.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	N-ACETYL-3-DODECYL-1-(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL) PYRROLIDINE-2,5-DIONE
CAS-No.	:	106917-31-1

Components

Chemical name	CAS-No.	Concentration (% w/w)
1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine	106917-31-1	90 - 100

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

SECTION 4. FIRST AID MEASURES

General advice	:	Remove/ Take off immediately all contaminated clothing. If someone exposed to the product feels unwell, contact a doctor and show this safety data sheet.
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	:	Remove contaminated clothing. Flush all affected areas with large amounts of water for at least 15 minutes. Seek medical attention immediately.
In case of eye contact	:	Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.
If swallowed	:	Do NOT induce vomiting. Get immediate medical advice/ attention.

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	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Foam Water spray jet Dry powder
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)
Specific hazards during firefighting	:	Carbon oxides Nitrogen oxides (NOx) None known.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and protective clothing. Cool containers with water to prevent rupture due to pressure buildup.
Special protective equipment for firefighters	:	Wear personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with skin and eyes. 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.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Pick up with sand or oil absorbing material. Dispose of contaminated material as prescribed

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Keep away sources of ignition. Observe the usual precautionary measures required for the safe handling of organic liquids.
Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Further information on storage conditions	:	Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

Personal protective equipment

Respiratory protection	:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection Remarks	:	Butyl Rubber, PVC Or Neoprene.
Eye protection	:	Chemical splash goggles with face shield.
Skin and body protection	:	Impervious protective clothing and chemically resistant footwear should be worn to minimize contact.
Protective measures	:	Observe the usual precautions for handling chemicals.
Hygiene measures	:	Do not breathe gas/fumes/vapour/spray.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	not specified
Odour Threshold	:	not determined
pH	:	approximately 6.45 (68 °F / 20 °C) Method: Directive 84/449/EEC, A.6 GLP: yes saturated aqueous solution
Melting point	:	Not applicable
Solidification point		13.1 °F / -10.5 °C Method: ISO 3016 GLP: no
Boiling point	:	> 331 °F / > 166 °C (0.50 hPa) Method: OECD Test Guideline 103 GLP: yes
Flash point	:	approx. 370 °F / 188 °C (1,013 hPa) Method: Pensky-Martens (DIN EN ISO 2719) (closed cup), closed cup GLP: no
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	The product is not flammable. Method: Directive 84/449/EEC, A.12 GLP: yes
Self-ignition	:	725 °F / 385 °C 980 mbar Method: DIN 51794 GLP: yes
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.

Vapour pressure	:	0.00062 Pa (77 °F / 25 °C) Method: Vapour pressure balance GLP: yes
Relative vapour density	:	not tested.
Relative density	:	1.0044 (68 °F / 20 °C, 1,013 hPa) Method: Directive 84/449/EEC, A.3 GLP: yes
Density	:	1.004 g/cm3 (68 °F / 20 °C, 1,013 hPa) Method: DIN 51757 GLP: yes
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	< 0.05 mg/l (68 °F / 20 °C) Method: EEC L251,A.6. Column elution. 1984 GLP: yes
Solubility in other solvents	:	> 2,000 g/l (68 °F / 20 °C) Solvent: Acetone > 2,000 g/l (68 °F / 20 °C) Solvent: Dimethylformamide > 2,000 g/l (68 °F / 20 °C) Solvent: Ethanol (99 °F / 37 °C) miscible Solvent: fat GLP: yes
Partition coefficient: n-octanol/water	:	log Pow: 7.44 (77 °F / 25 °C) Method: OECD Test Guideline 123 GLP: yes
Auto-ignition temperature	:	725 °F / 385 °C (980 mbar) Method: DIN 51794
Decomposition temperature	:	not tested.
Viscosity		
Viscosity, dynamic	:	6,300 mPa.s (68 °F / 20 °C) Method: Hoeppler GLP: yes
Viscosity, kinematic	:	not determined
Flow time	:	viscous liquid

Explosive properties	:	Not explosive Not explosive Method: Directive 84/449/EEC, A.14 GLP: yes
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement GLP: no
Impact sensitivity	:	Not impact sensitive. Method: BAM-Fallhammer
Surface tension	:	35 mN/m, 68 °F / 20 °C, Directive 84/449/EEC, A.5, GLP: yes, Data corresponds to that of the active component
Molecular weight	:	448 g/mol
Metal corrosion rate	:	Not corrosive to metals
Minimum ignition energy	:	not tested.
Particle size	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals GLP: no Stable
Conditions to avoid	:	not known
Incompatible materials	:	not known
Hazardous decomposition products	:	Carbon oxides Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Skin Absorption

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat, male and female): > 3,000 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute dermal toxicity	:	Remarks: Not observed

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Acute oral toxicity	:	LD50 (Rat, male and female): > 3,000 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute dermal toxicity	:	Remarks: Not observed

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: no

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Irritating to skin.
GLP: no

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Exposure time: 72 h
Method: OECD Test Guideline 405
GLP: no

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Species: Rabbit
Result: No eye irritation
Exposure time: 72 h
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation

Product:

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitisation by skin contact.
GLP: yes

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitisation by skin contact.
GLP: yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female) Strain: NMRI Application Route: Oral Dose: 2000 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.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: NMRI
Application Route: Oral
Dose: 2000 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

Product:

Carcinogenicity - Assessment : No information available.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Carcinogenicity - Assessment : No information available.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Product:

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

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

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

STOT - repeated exposure

Product:

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

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

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

Repeated dose toxicity

Product:

Species: Rat, male and female
NOEL: 15 mg/kg bw/day
Application Route: oral (gavage)
Exposure time: 28 d
Dose: 15, 150, and 1000 mg/kg b.w./d
Group: yes
Method: Directive 84/449/EEC, B.7
GLP: yes

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Species: Rat, male and female
NOEL: 15 mg/kg bw/day
Application Route: oral (gavage)
Exposure time: 28 d
Dose: 15, 150, and 1000 mg/kg b.w./d
Group: yes
Method: Directive 84/449/EEC, B.7

GLP: yes

Aspiration toxicity

Product:

No aspiration toxicity classification

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:
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 (Leuciscus idus (Golden orfe)): > 0.5 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
Remarks: No observable toxic effect in saturated solution.

LC0 (Leuciscus idus (Golden orfe)): > 0.5 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
Remarks: No observable toxic effect in saturated solution.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.27 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.011 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (green algae)): 0.011 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : Remarks: not reasonable

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.0031 mg/l
End point: Immobilization
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

EC50 (Daphnia magna (Water flea)): 0.0031 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

LOEC (Daphnia magna (Water flea)): 0.0033 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.0013 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes
Remarks: No observable toxic effect in saturated solution.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 0.5 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
Remarks: No observable toxic effect in saturated solution.

LC0 (Leuciscus idus (Golden orfe)): > 0.5 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yes
Remarks: No observable toxic effect in saturated solution.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.27 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.011 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (green algae)): 0.011 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : Remarks: not reasonable

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.0031 mg/l
End point: Immobilization
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

EC50 (Daphnia magna (Water flea)): 0.0031 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

LOEC (Daphnia magna (Water flea)): 0.0033 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

NOEC (Daphnia magna (Water flea)): 0.0013 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes
Remarks: No observable toxic effect in saturated solution.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 10 mg/l
Result: Not readily biodegradable.
Biodegradation: 20 % (Carbon dioxide (CO_2))
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Physico-chemical removability : Remarks: Not readily biodegradable.

Stability in water	:	Test Type: abiotic Degradation half life (Aqueous buffer solution.): 17 h (104 °F / 40 °C) pH: 4 Method: Other GLP: yes Test Type: abiotic Degradation half life (Aqueous buffer solution.): 135 h (140 °F / 60 °C) pH: 7 Method: Other GLP: yes Test Type: abiotic Degradation half life (Aqueous buffer solution.): 17 - 24 h (158 °F / 70 °C) pH: 7 Method: Other GLP: yes Test Type: abiotic Degradation half life (Aqueous buffer solution.): 44.9 h (104 °F / 40 °C) pH: 9 Method: Other GLP: yes

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 10 mg/l Carbon dioxide (CO2) Result: Not readily biodegradable. Biodegradation: 20 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes
Physico-chemical removability	:	Remarks: Not readily biodegradable.
Stability in water	:	Test Type: abiotic Degradation half life (Aqueous buffer solution.): 17 h (40 °C) pH: 4 Method: Other GLP: yes Test Type: abiotic Degradation half life (Aqueous buffer solution.): 135 h (60 °C) pH: 7 Method: Other GLP: yes Test Type: abiotic

Degradation half life (Aqueous buffer solution.): 17 - 24 h (70 °C) pH: 7
Method: Other
GLP: yes

Test Type: abiotic
Degradation half life (Aqueous buffer solution.): 44.9 h (40 °C) pH: 9
Method: Other
GLP: yes

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

Partition coefficient: n-octanol/water : log Pow: 7.439 (77 °F / 25 °C)
Method: OECD Test Guideline 123
GLP: yes

Mobility in soil

no data available

Other adverse effects

Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

Components:

1-Acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethyl-piperidine:

Environmental fate and pathways : no data available

Results of PBT and vPvB assessment : Remarks: no data available

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	No -- Not as sold.
Waste Code	:	None
Waste from residues	:	Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.
Contaminated packaging	:	Do not empty into drains. Avoid release to the environment. Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT Regulation:

UN/NA-number:	UN 3082
Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s.
Technical Name:	STERICALLY HINDERED AMINE
Primary hazard class:	9
Packing group:	III
Emergency Response Guide:	171

IATA

UN/ID number:	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	STERICALLY HINDERED AMINE
Primary risk:	9
Packing group:	III
Remarks:	Shipment permitted

IMDG

UN no.:	UN 3082
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.
Hazard inducer(s):	STERICALLY HINDERED AMINE
Primary risk:	9
Packing group:	III
Marine pollutant:	Marine Pollutant
EmS:	F-A S-F

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Skin corrosion or irritation
Respiratory or skin sensitisation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

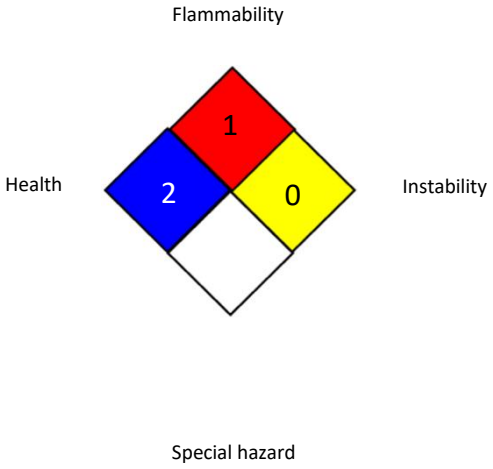
The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United

Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.
None known.

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