Substance key: KS14593	Revision Date: 06/04/2019
Version : 5 - 2 / USA	Date of printing :12/02/2019

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Plastics & Coating USA LLC 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:	**HOSTAVIN VSU P**
Material number:	103429
CAS number:	23949-66-8
Primary product use:	UV absorber
Chemical family:	Oxanilide derivative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements :

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : Oxanilide derivative

CAS-No. : 23949-66-8

Components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASURES

General advice	:	Get medical advice/ attention if you feel unwell.
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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
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	:	Water Carbon dioxide (CO2)
Unsuitable extinguishing media	:	No restrictions
Specific hazards during firefighting	:	Nitrogen oxides (NOx) Carbon oxides Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
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 : Self-contained breathing apparatus

Impervious clothing
Protective helmets

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Remove persons to safety.
Wearing appropriate personal protective equipment, contain spill and collect into a suitable container.
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Environmental precautions : Do not allow to enter drains or waterways
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

Methods and materials for containment and cleaning up : Pick up with sand or oil absorbing material.
Wash with plenty of water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

Avoid dust formation.
Keep away sources of ignition.

Keep away from sources of ignition - No smoking.

Advice on safe handling : Avoid dust formation. Keep away from sources of ignition.
Lead off electrostatic charges.
Avoid inhalation, ingestion and contact with skin and eyes.
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 : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of exposure.

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.
Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Keep away from food, drink and animal feeding stuffs.
Ensure adequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white to light yellow
Odour	:	not specified
Odour Threshold	:	not determined
pH	:	Not applicable
Melting point	:	ca. 257 °F / 125 °C Method: DSC
Boiling point	:	541 °F / 283 °C
Flash point	:	Not applicable
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	not highly flammable GLP: no

Burning number	:	1 Method: VDI 2263, ESCIS, Vol. 1 GLP: no Does not catch fire
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	not tested.
Vapour pressure	:	0.00035 mPa (68 °F / 20 °C) Method: OECD Test Guideline 104 GLP: yes 0.00088 mPa (77 °F / 25 °C) Method: OECD Test Guideline 104 GLP: yes 0.058 mPa (122 °F / 50 °C) Method: OECD Test Guideline 104 GLP: yes
Relative vapour density	:	not tested.
Density	:	1.26 g/cm3 (73 °F / 23 °C) Method: ISO 1183
Solubility(ies)		
Water solubility	:	0.3 mg/l (68 °F / 20 °C) Method: OECD Test Guideline 105 GLP: no
Solubility in other solvents	:	60 g/l (68 °F / 20 °C) Solvent: Toluene not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	log Pow: 4.9 Method: OECD Test Guideline 117 GLP: yes
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	> 734 °F / > 390 °C Heating rate: 3 K/min Method: DSC closed cup
Viscosity		
Viscosity, dynamic	:	Not applicable

Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive Not explosive Method: Other
Surface tension	:	not required
Conductivity	:	0 µS/cm
Dust deflagration index (Kst)	:	293 m.b_/s
Dust explosion class	:	ST2 Capable of dust explosion
Minimum ignition energy	:	7 - 10 mJ with inductive electrical resistance
Particle size	:	ca. 16 µm Method: Laser diffraction with dispersion in dry air. Median value

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	Stable The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals Stable
Conditions to avoid	:	Keep away from heat and sources of ignition.
Incompatible materials	:	none
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Inhalation

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD50 (Rat, male): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: no

Skin corrosion/irritation

Product:

Species: Rabbit
Exposure time: 72 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: no

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Exposure time: 7 d
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation

Product:

Test Type: Local lymph node assay (LLNA)
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Not a skin sensitizer.
GLP: yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Test Type: In vitro gene mutation study in mammalian cells

Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

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

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Species: Rat, (male and female)
Application Route: oral (feed)
Exposure time: 2 years
Dose: 100, 1000, 10000 ppm in diet
Group: yes, concurrent vehicle
521 - 709 mg/kg bw/day
Method: OECD Test Guideline 453
GLP: no
Remarks: No significant adverse effects were reported

Species: Mouse, (male and female)
Application Route: Dermal
Exposure time: 320 d
Dose: 3 µg
Group: yes
Frequency of Treatment: 3 times per week
Method: Other
GLP: no
Remarks: No significant adverse effects were reported

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

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:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, no data available Strain: wistar Application Route: oral (feed) Dose: 50, 250, or 125 mg/kg bw/day General Toxicity - Parent: LOAEL: > 110 mg/kg body weight Method: Other GLP: No information available. Remarks: By analogy with a product of similar composition
Effects on foetal development	:	Species: Rat Method: Other GLP: no Remarks: The value is calculated No significant adverse effects were reported
Reproductive toxicity - Assessment	:	No reproductive toxicity to be expected.

STOT - single exposure

Product:

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.

Repeated dose toxicity

Product:

Species: Rat, male and female
NOAEL: 600 mg/kg bw/day
Application Route: oral (feed)
Exposure time: 13 weeks
Dose: 1600, 4000, 10000 ppm in diet
Group: yes
Method: OECD Test Guideline 408
GLP: no

Remarks: No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

Product:

no data available

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 (Cyprinus carpio (Carp)): > 1,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 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 : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: no

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

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

Toxicity to soil dwelling organisms	:	Test Type: artificial soil LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d End point: mortality Method: OECD Test Guideline 207 GLP: yes

Persistence and degradability

Product:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Concentration: 30 mg/l Result: Not biodegradable Biodegradation: 0 % (Biochemical Oxygen Demand (BOD)) Exposure time: 28 d Method: OECD Test Guideline 302C GLP: yes
Stability in water	:	Degradation half life (pH): 4,639 h (68 °F / 20 °C) pH: 7 Method: OECD Test Guideline 111 GLP: yes Degradation half life (pH): 1,993 h (86 °F / 30 °C) pH: 7 Method: OECD Test Guideline 111 GLP: yes Degradation half life (pH): 565 h (122 °F / 50 °C) pH: 7 Method: OECD Test Guideline 111 GLP: yes Degradation half life (pH): 1,019 h (68 °F / 20 °C) pH: 9 Method: OECD Test Guideline 111 GLP: yes Degradation half life (pH): 1,171 h (86 °F / 30 °C) pH: 9 Method: OECD Test Guideline 111 GLP: yes Degradation half life (pH): 245 h (122 °F / 50 °C) pH: 9 Method: OECD Test Guideline 111 GLP: yes

Bioaccumulative potential

Product:

Bioaccumulation	:	Bioconcentration factor (BCF): 143.4 Method: calculated GLP: no

Mobility in soil

Product:

Distribution among environmental compartments	:	Medium: Soil log Koc: 3.79 Method: OECD Test Guideline 121

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
Waste Code	:	none
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
Contaminated packaging	:	Dispose of in accordance with local 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

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	:	Combustible dust
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

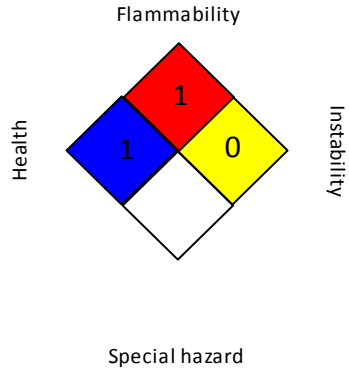
The components of this product are reported in the following inventories:

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

AICS - Australian Inventory of Chemical Substances; 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; 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

Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

Revision Date : 06/04/2019

US / EN