

## HOSTAVIN 3055 LIQ

Page 1

Substance key: KS13922  
Version : 6 - 6 / USA

Revision Date: 11/24/2023  
Date of printing :01/08/2025

## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

<b>Trade name:</b>	<b>HOSTAVIN 3055 LIQ</b>
<b>Material number:</b>	103417
<b>CAS number:</b>	79720-19-7
<b>Primary product use:</b>	Class of additive: Light stabilizer
<b>Chemical family:</b>	DODECYL-1-(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)PYRROLIDINE-2,5-DIONE. Sterically hindered amine light stabilizer (HALS)

## SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

Specific target organ toxicity  
- repeated exposure (Oral) : Category 2**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

## HOSTAVIN 3055 LIQ

Page 2

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

Precautionary statements

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**Prevention:**

P260 Do not breathe mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 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/ doctor.

P314 Get medical advice/ attention if you feel unwell.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**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 : 3-dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidin-2,5-dione

CAS-No. : 79720-19-7

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione	79720-19-7	>= 90 - <= 100

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

## HOSTAVIN 3055 LIQ

Page 3

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

- 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.
- If inhaled, remove to fresh air.  
Get medical advice/ attention.
- 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 : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Get immediate medical advice/ attention.  
Do NOT induce vomiting.
- 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.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Dry powder  
Water spray jet
- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)
- Specific hazards during firefighting : Carbon oxides  
  
Nitrogen oxides (NO<sub>x</sub>)
- Further information : Use NIOSH/MSHA approved self-contained breathing apparatus and other proper protective equipment where this chemical is involved in a fire. Use water spray to cool containers.
- Special protective equipment for firefighters : Impervious clothing  
Protective helmets  
Self-contained breathing apparatus

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

## HOSTAVIN 3055 LIQ

Page 4

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing.  
Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent. Place in suitable container. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- Environmental precautions : Do not allow to enter drains or waterways
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Take precautionary measures against static discharges.  
  
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 a cool, dry, well-ventilated area. Keep container sealed when not in use.

**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 : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.  
  
Use only in well-ventilated areas.  
In the case of vapour formation use a respirator with an approved filter.  
Equipment should conform to EN 14387  
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.  
ABEK-P3-filter
- Filter type : Organic gas and low boiling vapour type

## HOSTAVIN 3055 LIQ

Page 5

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

Organic vapour type

Hand protection Remarks	:	Butyl Rubber, PVC Or Neoprene.
Eye protection	:	Chemical splash goggles with face shield.
Skin and body protection	:	Wear suitable protective equipment.
Protective measures	:	Observe the usual precautions for handling chemicals.
Hygiene measures	:	Avoid contact with skin and eyes.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Colour	:	light yellow
Odour	:	not specified
Odour Threshold	:	not determined
pH	:	8.1 (68 °F / 20 °C) Concentration: 0.1 g/l concentrate (as aqueous solution)
Melting point	:	< -148 °F / < -100 °C Method: OECD Test Guideline 102 GLP: yes
Boiling point	:	781 °F / 416 °C (1,013 hPa) Method: OECD Test Guideline 103 GLP: yes
Flash point	:	396.5 °F / 202.5 °C  Method: Pensky-Martens (DIN EN ISO 2719) (closed cup) GLP: no
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	Method: Expert judgement GLP: no The substance or mixture is not classified as pyrophoric.

# SAFETY DATA SHEET

## HOSTAVIN 3055 LIQ

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

	689 °F / 365 °C Method: EC/440/2008, A.15 GLP: yes
Upper explosion limit / upper flammability limit	: not tested.
Lower explosion limit / Lower flammability limit	: not tested.
Vapour pressure	: 0.000043 Pa (68 °F / 20 °C) Method: OECD Test Guideline 104 GLP: yes
	0.000074 Pa (77 °F / 25 °C) Method: OECD Test Guideline 104 GLP: yes
	0.00086 Pa (122 °F / 50 °C) Method: OECD Test Guideline 104 GLP: yes
Relative vapour density	: not tested.
Density	: 0.956 g/cm <sup>3</sup> (73 °F / 23 °C, 1,013 hPa) Method: ISO 1183 GLP: no
	0.96 g/cm <sup>3</sup> (68 °F / 20 °C, 1,013 hPa) Method: OECD Test Guideline 109 GLP: yes
Solubility(ies)	
Water solubility	: 6.3 mg/l (68 °F / 20 °C) Method: OECD Test Guideline 105 GLP: yes
Solubility in other solvents	: not tested. Solvent: fat
Partition coefficient: n-octanol/water	: log Pow: 7.1 Method: OECD Test Guideline 117 GLP: yes
Auto-ignition temperature	: not determined
Decomposition temperature	: > 932 °F / > 500 °C Heating rate: 3 K/min Method: DSC No decomposition if used as directed.
Viscosity	
Viscosity, dynamic	: approx. 156 mPa.s (approx. 122 °F / 50 °C) Method: DIN 53019

## HOSTAVIN 3055 LIQ

Page 7

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

	GLP: no
Viscosity, kinematic	: not determined > 100 mm <sup>2</sup> /s Method: calculated
Explosive properties	: Not explosive Not explosive Method: OECD Test Guideline 113 GLP: yes
Oxidizing properties	: Method: Expert judgement GLP: no There are no chemical groups associated with oxidising properties present in the molecule.  Method: Expert judgement GLP: no The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Surface tension	: not required
Metal corrosion rate	: Not applicable
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	: No dangerous reaction known under conditions of normal use. The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals Stable
Conditions to avoid	: None known.
Incompatible materials	: not known
Hazardous decomposition products	: At high temperatures: thermal decomposition giving toxic products. Carbon oxides Nitrogen oxides (NO <sub>x</sub> )  The product does not contain any chemical groups which

## HOSTAVIN 3055 LIQ

Page 8

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

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  
Skin Absorption

**Acute toxicity****Product:**

Acute oral toxicity : Remarks: not tested.

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Acute oral toxicity : LD50 (Rat, male and female): 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation****Product:**

Remarks : not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Species : Rabbit  
Exposure time : 24 h  
Method : OECD Test Guideline 404  
Result : Corrosive after 4 hours or less of exposure  
GLP : No information available.

**Serious eye damage/eye irritation****Product:**

Remarks : not tested.



Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
GLP : No information available.

**Respiratory or skin sensitisation****Product:**

Remarks : not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Remarks : Study not performed as the substance is corrosive.  
Assessment : Harmful if swallowed., Causes severe skin burns and eye damage.

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : No information available.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

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  
  
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  
  
Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
  
Germ cell mutagenicity - : In vitro tests did not show mutagenic effects

## HOSTAVIN 3055 LIQ

Page 10

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

Assessment

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : No information available.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

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****Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: oral (gavage)  
Dose: 0, 5, 25, 100 mg/kg bw/day  
Duration of Single Treatment: 45 - 63 d  
General Toxicity - Parent: NOEL: >= 100 mg/kg body weight  
General Toxicity F1: NOAEL: 100 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

**STOT - single exposure****Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

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

## HOSTAVIN 3055 LIQ

Page 11

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

**STOT - repeated exposure****Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Exposure routes : Oral  
Assessment : May cause damage to organs through prolonged or repeated exposure.

Exposure routes : Oral  
Target Organs : thymus, lymphatic system, Adrenal gland, Kidney, Liver  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Repeated dose toxicity****Product:**

Remarks : not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Species : Rat, male and female  
NOAEL : 25 mg/kg bw/day  
Application Route : oral (gavage)  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 0, 25, 100 and 300 mg/kg  
Control Group : yes  
Subsequent observation period : 14 d  
Method : OECD Test Guideline 407  
GLP : yes  
Target Organs : lymphatic system, Kidney, Liver, thymus gland

Repeated dose toxicity - Assessment : Harmful if swallowed., Causes severe skin burns and eye damage.

**Aspiration toxicity****Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

no data available

**Experience with human exposure****Product:**

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

**Further information****Product:**

## HOSTAVIN 3055 LIQ

Page 12

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

Remarks : Can be absorbed through skin.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other aquatic invertebrates : Remarks: not tested.

Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 0.097 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.501 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.374 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

ErC10 (Desmodesmus subspicatus (green algae)): 0.263 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

## HOSTAVIN 3055 LIQ

Page 13

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: no data available
M-Factor (Chronic aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (activated sludge): 58.9 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 209 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.

**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	:	Remarks: not tested.
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**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 20.4 mg/l Carbon dioxide (CO <sub>2</sub> ) Result: Not readily biodegradable. Biodegradation: 11 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes
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Stability in water	:	Test Type: abiotic Degradation half life (DT50): > 365 d (20 °C) pH: 7 Method: OECD Test Guideline 111
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## HOSTAVIN 3055 LIQ

Page 14

---

Substance key: KS13922  
Version : 6 - 6 / USA

Revision Date: 11/24/2023  
Date of printing :01/08/2025

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**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not tested.

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 447  
Method: Other  
GLP: no  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Partition coefficient: n-octanol/water : log Pow: 7.1 (77 °F / 25 °C)  
pH: 11  
Method: OECD Test Guideline 117  
GLP: yes

**Mobility in soil****Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

Distribution among environmental compartments : Koc method  
Medium: Soil  
Koc: 426580, log Koc: > 5.63  
Method: OECD Test Guideline 121

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Additional ecological information : no data available

**Components:****3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione:**

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

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act Authorization Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

## HOSTAVIN 3055 LIQ

Page 15

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

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 Regulation:**

UN/NA-number: UN 2735  
Proper shipping name: Amines, liquid, corrosive, n.o.s.  
Technical Name: 3-Dodecyl-1-(2,2,6,6-Tetramethyl-4-Piperidiny)-2,5-Pyrrolidinedione

Primary hazard class: 8  
Packing group: II  
Emergency Response Guide: 153

**IATA**

UN/ID number: UN 2735  
Proper shipping name: Amines, liquid, corrosive, n.o.s.  
Hazard inducer(s): TETRAMETHYL PIPERIDINE COMPOUND

Primary risk: 8  
Packing group: II  
Remarks: Shipment permitted

**IMDG**

UN no.: UN 2735  
Proper shipping name: Amines, liquid, corrosive, n.o.s.  
Hazard inducer(s): TETRAMETHYL PIPERIDINE COMPOUND

Primary risk: 8  
Packing group: II  
Marine pollutant: Marine Pollutant  
EmS: F-A S-B

**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** : Acute toxicity (any route of exposure)  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation

# SAFETY DATA SHEET

**HOSTAVIN 3055 LIQ**

Page 16

---

Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

---

Serious eye damage or eye irritation

**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 Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

## 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.

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## SECTION 16. OTHER INFORMATION

### Further information

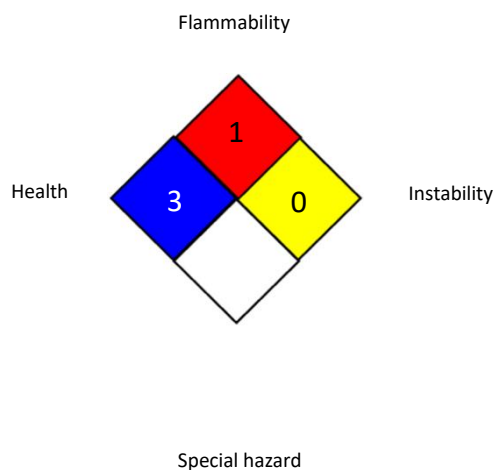


Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

**NFPA 704:****Full text of other abbreviations**

AICC - 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

# SAFETY DATA SHEET



**HOSTAVIN 3055 LIQ**

Page 18

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Substance key: KS13922

Revision Date: 11/24/2023

Version : 6 - 6 / USA

Date of printing :01/08/2025

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

For additional information, contact Product Stewardship.

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