

1 Identification

- **Product identifier**
- **Trade name: Steelkote 159 Flat Greens**
- **Article number: 159GXXX**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Baril Coatings USA, LLC
401 Growth Parkway
Angola, IN 46703
- **Information department: Product safety department**
- **Emergency telephone number: During normal opening times: +1 (260) 665-8431**

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word Danger**
- **Hazard-determining components of labeling:**
C.I. Pigment Yellow 53
Solvent naphtha (petroleum), light arom.
titanium dioxide
Quartz (SiO₂)
- **Hazard statements**
Flammable liquid and vapor.
May cause genetic defects.
May cause cancer.

Trade name: Steerkote 159 Flat Greens

(Contd. of page 1)

Precautionary statements

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If exposed or concerned: Get medical advice/attention.
- In case of fire: Use for extinction: CO₂, powder or water spray.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:**NFPA ratings (scale 0 - 4)**

Health = 1
Fire = 3
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
Fire = 3
Reactivity = 0

Other hazards**Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

3 Composition/information on ingredients**Chemical characterization: Mixtures**

Description: Hazardous substances listed below.

Dangerous components:

123-86-4	n-butyl acetate	>10-<20%
110-43-0	Methyl n-amyl ketone	>10-≤25%
108-65-6	2-methoxy-1-methylethyl acetate	>2.5-≤10%
112926-00-8	amorphous silica (silica gel, precipitated silica)	>2.5-≤10%
67-64-1	acetone	>2.5-<10%
540-88-5	tert-butyl acetate	>2.5-≤10%
8007-18-9	C.I. Pigment Yellow 53	0.1-≤2.5%
13463-67-7	titanium dioxide	0.1-≤2.5%
64742-95-6	Solvent naphtha (petroleum), light arom.	0.1-≤2.5%

(Contd. on page 3)

Printing date 08/19/2025

Reviewed on 08/19/2025

Trade name: Steelkote 159 Flat Greens

(Contd. of page 2)

14808-60-7 Quartz (SiO₂)

0.1-≤2.5%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

123-86-4	n-butyl acetate	5 ppm
110-43-0	Methyl n-amyl ketone	150 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
9002-88-4	Polyethylene low density	16 mg/m ³
112926-00-8	amorphous silica (silica gel, precipitated silica)	18 mg/m ³
67-64-1	acetone	200 ppm

(Contd. on page 4)

Trade name: Steelkote 159 Flat Greens

(Contd. of page 3)

540-88-5	tert-butyl acetate	600 ppm
13463-67-7	titanium dioxide	30 mg/m ³
628-63-7	pentyl acetate	100 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

· PAC-2:

123-86-4	n-butyl acetate	200 ppm
110-43-0	Methyl n-amyl ketone	670 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
9002-88-4	Polyethylene low density	170 mg/m ³
112926-00-8	amorphous silica (silica gel, precipitated silica)	200 mg/m ³
67-64-1	acetone	3200* ppm
540-88-5	tert-butyl acetate	1,700 ppm
13463-67-7	titanium dioxide	330 mg/m ³
628-63-7	pentyl acetate	670 ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m ³

· PAC-3:

123-86-4	n-butyl acetate	3000* ppm
110-43-0	Methyl n-amyl ketone	4000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
9002-88-4	Polyethylene low density	1,000 mg/m ³
112926-00-8	amorphous silica (silica gel, precipitated silica)	1,200 mg/m ³
67-64-1	acetone	5700* ppm
540-88-5	tert-butyl acetate	10,000 ppm
13463-67-7	titanium dioxide	2,000 mg/m ³
628-63-7	pentyl acetate	4000* ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m ³

7 Handling and storage**· Handling:****· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities**· Storage:**

· Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep receptacle tightly sealed.

(Contd. on page 5)

Trade name: **Steelkote 159 Flat Greens**

(Contd. of page 4)

· **Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection**· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetatePEL Long-term value: 710 mg/m³, 150 ppmREL Short-term value: 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppmTLV Short-term value: 712 mg/m³, 150 ppm
Long-term value: 238 mg/m³, 50 ppm**110-43-0 Methyl n-amyl ketone**PEL Long-term value: 465 mg/m³, 100 ppmREL Long-term value: 465 mg/m³, 100 ppmTLV Long-term value: 233 mg/m³, 50 ppm**108-65-6 2-methoxy-1-methylethyl acetate**

WEEL Long-term value: 50 ppm

112926-00-8 amorphous silica (silica gel, precipitated silica)PEL 20mppcf or 80mg/m³ /%SiO₂REL Long-term value: 6 mg/m³
See Pocket Guide App. C

TLV TLV withdrawn

67-64-1 acetonePEL Long-term value: 2400 mg/m³, 1000 ppmREL Long-term value: 590 mg/m³, 250 ppmTLV Short-term value: 1187 mg/m³, 500 ppm
Long-term value: 594 mg/m³, 250 ppm
BEI**540-88-5 tert-butyl acetate**PEL Long-term value: 950 mg/m³, 200 ppmREL Long-term value: 950 mg/m³, 200 ppmTLV Short-term value: 712 mg/m³, 150 ppm
Long-term value: 238 mg/m³, 50 ppm**8007-18-9 C.I. Pigment Yellow 53**PEL Long-term value: 1 mg/m³
as NiREL Long-term value: 0.015 mg/m³
as Ni; See Pocket Guide App. ATLV Long-term value: 0.2 mg/m³
as Ni; inhalable fraction

(Contd. on page 6)

Trade name: Steelkote 159 Flat Greens

(Contd. of page 5)

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

· **Ingredients with biological limit values:****67-64-1 acetone**

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
-----	--

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

-US-

(Contd. on page 7)

Trade name: **Steelkote 159 Flat Greens**

(Contd. of page 6)

9 Physical and chemical properties· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Liquid
· Color:	Green
· Odor:	Solvent-like
· Odor threshold:	Not determined.

· **pH-value:** Not determined.· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	124-128 °C (255.2-262.4 °F)

· **Flash point:** 27 °C (80.6 °F)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** 315 °C (599 °F)· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.· **Explosion limits:**

· Lower:	1 Vol %
· Upper:	7.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 10.7 hPa (8 mm Hg)· **Density at 20 °C (68 °F):** 1.09 g/cm³ (9.1 lbs/gal)· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**· **Water:** Miscible· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· **Solvent content:**

· Organic solvents:	37.5 %
· VOC content:	34.12 %
	371.9 g/l / 3.10 lb/gal

· **Solids content:** 48.8 % (by weight)· **Other information:** No further relevant information available.**10 Stability and reactivity**· **Reactivity** No further relevant information available.

(Contd. on page 8)

Trade name: Steelkote 159 Flat Greens

(Contd. of page 7)

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic.
The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

9002-88-4	Polyethylene low density	3
8007-18-9	C.I. Pigment Yellow 53	1
13463-67-7	titanium dioxide	2B
14808-60-7	Quartz (SiO ₂)	1

- **NTP (National Toxicology Program)**

8007-18-9	C.I. Pigment Yellow 53	K
14808-60-7	Quartz (SiO ₂)	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water

(Contd. on page 9)

Trade name: **Steelkote 159 Flat Greens**

(Contd. of page 8)

Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, IMDG, IATA** UN1263

· **UN proper shipping name**

· **DOT** Paint

· **IMDG, IATA** PAINT

· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids

· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids

· **Label** 3

· **Packing group**

· **DOT, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids

· **Danger code (Kemler):** 30

· **EMS Number:** F-E, S-E

· **Stowage Category** A

(Contd. on page 10)

Trade name: Steelkote 159 Flat Greens

(Contd. of page 9)

- | | |
|--|--|
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · DOT | |
| · Quantity limitations | On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 1263 PAINT, 3, III |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

8007-18-9 | C.I. Pigment Yellow 53

- **TSCA (Toxic Substances Control Act):**

123-86-4	n-butyl acetate
110-43-0	Methyl n-amyl ketone
108-65-6	2-methoxy-1-methylethyl acetate
9002-88-4	Polyethylene low density
67-64-1	acetone
540-88-5	tert-butyl acetate
8007-18-9	C.I. Pigment Yellow 53
13463-67-7	titanium dioxide
64742-95-6	Solvent naphtha (petroleum), light arom.
628-63-7	pentyl acetate
68457-74-9	phenol, isobutyleneated, methylstyrenated
624-41-9	2-methylbutyl acetat
104810-47-1	poly(oxy-1,2-ethanediyl), α -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- ω -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-
164383-18-0	cyclohexanamine, N,N-dimethyl-, compd. with α -isotridecyl- ω -hydroxypoly(oxy-1,2-ethanediyl)phosphate
108-83-8	2,6-dimethylheptan-4-one
104810-48-2	poly(oxy-1,2-ethanediyl), α -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- ω -hydroxy-
14808-60-7	Quartz (SiO ₂)

- **TSCA new (21st Century Act) (Substances not listed)**

112926-00-8 | amorphous silica (silica gel, precipitated silica)

(Contd. on page 11)

Printing date 08/19/2025

Reviewed on 08/19/2025

Trade name: **Steelkote 159 Flat Greens**

(Contd. of page 10)

· **Proposition 65**· **Chemicals known to cause cancer:**

8007-18-9	C.I. Pigment Yellow 53
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO ₂)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

67-64-1	acetone	/
---------	---------	---

· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
8007-18-9	C.I. Pigment Yellow 53	A4
13463-67-7	titanium dioxide	A4
14808-60-7	Quartz (SiO ₂)	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

8007-18-9	C.I. Pigment Yellow 53
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO ₂)

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS02 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

C.I. Pigment Yellow 53
Solvent naphtha (petroleum), light arom.
titanium dioxide
Quartz (SiO₂)

· **Hazard statements**

Flammable liquid and vapor.
May cause genetic defects.
May cause cancer.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Contd. on page 12)

Trade name: Steelkote 159 Flat Greens

(Contd. of page 11)

Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF exposed or concerned: Get medical advice/attention.
 In case of fire: Use for extinction: CO₂, powder or water spray.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.

- **Contact:** Mr. Williams

- **Date of preparation / last revision** 08/19/2025 / -

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1A: Carcinogenicity – Category 1A