

1 Identification

- **Product identifier**
- **Trade name: Steelkote 147 Yellows**
- **Article number: 147YXXX**
- **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. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02



GHS07



GHS08

- **Signal word Danger**
- **Hazard-determining components of labeling:**
titanium dioxide
n-butyl acetate
Solvent naphtha (petroleum), light arom.

Trade name: Steelkote 147 Yellows

(Contd. of page 1)

methyl acetate

Hazard statements

Highly flammable liquid and vapor.
May cause genetic defects.
May cause cancer.
May cause drowsiness or dizziness.

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.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
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:

| | | |
|------------|------------------|----------|
| 13463-67-7 | titanium dioxide | >10-≤25% |
| 123-86-4 | n-butyl acetate | >10-<20% |

(Contd. on page 3)

Trade name: **Steelkote 147 Yellows**

(Contd. of page 2)

| | | |
|------------|--|-----------|
| 108-65-6 | 2-methoxy-1-methylethyl acetate | >2.5-≤10% |
| 540-88-5 | tert-butyl acetate | >2.5-≤10% |
| 79-20-9 | methyl acetate | >2.5-<10% |
| 110-43-0 | Methyl n-amyl ketone | >2.5-≤10% |
| 64742-95-6 | Solvent naphtha (petroleum), light arom. | 0.1-≤2.5% |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | 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:**

| | | |
|------------|------------------|----------------------|
| 13463-67-7 | titanium dioxide | 30 mg/m ³ |
|------------|------------------|----------------------|

(Contd. on page 4)

Printing date 09/30/2025

Reviewed on 09/30/2025

Trade name: Stealkote 147 Yellows

(Contd. of page 3)

| | | |
|------------|--|-----------------------|
| 123-86-4 | <i>n</i> -butyl acetate | 5 ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 50 ppm |
| 540-88-5 | <i>tert</i> -butyl acetate | 600 ppm |
| 79-20-9 | methyl acetate | 250 ppm |
| 110-43-0 | Methyl <i>n</i> -amyl ketone | 150 ppm |
| 1344-28-1 | aluminium oxide | 15 mg/m ³ |
| 7631-86-9 | silicon dioxide, chemically prepared | 18 mg/m ³ |
| 628-63-7 | pentyl acetate | 100 ppm |
| 1314-23-4 | zirconium dioxide | 14 mg/m ³ |
| 2530-83-8 | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 9.3 mg/m ³ |
| 71-36-3 | butan-1-ol | 60 ppm |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | 350 mg/m ³ |

PAC-2:

| | | |
|------------|--|-------------------------|
| 13463-67-7 | titanium dioxide | 330 mg/m ³ |
| 123-86-4 | <i>n</i> -butyl acetate | 200 ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 1,000 ppm |
| 540-88-5 | <i>tert</i> -butyl acetate | 1,700 ppm |
| 79-20-9 | methyl acetate | 1,700 ppm |
| 110-43-0 | Methyl <i>n</i> -amyl ketone | 670 ppm |
| 1344-28-1 | aluminium oxide | 170 mg/m ³ |
| 7631-86-9 | silicon dioxide, chemically prepared | 740 mg/m ³ |
| 628-63-7 | pentyl acetate | 670 ppm |
| 1314-23-4 | zirconium dioxide | 110 mg/m ³ |
| 2530-83-8 | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 100 mg/m ³ |
| 71-36-3 | butan-1-ol | 800 ppm |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | 1,800 mg/m ³ |

PAC-3:

| | | |
|------------|--|--------------------------|
| 13463-67-7 | titanium dioxide | 2,000 mg/m ³ |
| 123-86-4 | <i>n</i> -butyl acetate | 3000* ppm |
| 108-65-6 | 2-methoxy-1-methylethyl acetate | 5000* ppm |
| 540-88-5 | <i>tert</i> -butyl acetate | 10,000 ppm |
| 79-20-9 | methyl acetate | 10000* ppm |
| 110-43-0 | Methyl <i>n</i> -amyl ketone | 4000* ppm |
| 1344-28-1 | aluminium oxide | 990 mg/m ³ |
| 7631-86-9 | silicon dioxide, chemically prepared | 4,500 mg/m ³ |
| 628-63-7 | pentyl acetate | 4000* ppm |
| 1314-23-4 | zirconium dioxide | 680 mg/m ³ |
| 2530-83-8 | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | 230 mg/m ³ |
| 71-36-3 | butan-1-ol | 8000** ppm |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy | 40,000 mg/m ³ |

US

(Contd. on page 5)

Trade name: **Steelkote 147 Yellows**

(Contd. of page 4)

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:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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 acetate | |
|---|---|
| PEL | Long-term value: 710 mg/m ³ , 150 ppm |
| REL | Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm |
| TLV | Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm |
| 108-65-6 2-methoxy-1-methylethyl acetate | |
| WEEL | Long-term value: 50 ppm |
| 540-88-5 tert-butyl acetate | |
| PEL | Long-term value: 950 mg/m ³ , 200 ppm |
| REL | Long-term value: 950 mg/m ³ , 200 ppm |
| TLV | Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm |
| 79-20-9 methyl acetate | |
| PEL | Long-term value: 610 mg/m ³ , 200 ppm |
| REL | Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm |
| TLV | Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm |
| 110-43-0 Methyl n-amyl ketone | |
| PEL | Long-term value: 465 mg/m ³ , 100 ppm |

(Contd. on page 6)

US

Trade name: Stealkote 147 Yellows

(Contd. of page 5)

REL Long-term value: 465 mg/m³, 100 ppmTLV Long-term value: 233 mg/m³, 50 ppm

- **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

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

| | |
|------------------------|-----------------|
| Form: | Liquid |
| Color: | Yellow |
| Odor: | Solvent-like |
| Odor threshold: | Not determined. |

| | |
|------------------|-----------------|
| pH-value: | Not determined. |
|------------------|-----------------|

· **Change in condition**

| | |
|-------------------------------------|--------------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 97.9 °C (208.2 °F) |

(Contd. on page 7)

Trade name: **Steelkote 147 Yellows**

(Contd. of page 6)

| | |
|---|--|
| · Flash point: | 15 °C (59 °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: | 1.2 Vol % |
| Upper: | 7.5 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 10.7 hPa (8 mm Hg) |
| · Density at 20 °C (68 °F): | 1.17 g/cm ³ (9.76 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: | 29.8 % |
| VOC content: | 29.78 % |
| | 348.4 g/l / 2.91 lb/gal |
| · Solids content: | 58.7 % (by weight) |
| · Other information: | No further relevant information available. |

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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.

US

(Contd. on page 8)

Trade name: **Steelkote 147 Yellows**

(Contd. of page 7)

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) |

64742-48-9 Naphtha (petroleum), hydrotreated heavy

| | | |
|--------|------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >3,000 mg/kg (rab) |

- **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)**

| | | |
|------------|--------------------------------------|----|
| 13463-67-7 | titanium dioxide | 2B |
| 7631-86-9 | silicon dioxide, chemically prepared | 3 |

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **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
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.

US

(Contd. on page 9)



Trade name: **Steelkote 147 Yellows**

(Contd. of page 8)

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 | UN1263 |
| · DOT, IMDG, IATA | |
| · UN proper shipping name | Paint |
| · DOT | PAINT |
| · IMDG, IATA | |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |
| · Packing group | II |
| · DOT, IMDG, IATA | |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Warning: Flammable liquids |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E, S-E |
| · Stowage Category | B |
| · 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: 5 L On cargo aircraft only: 60 L |

(Contd. on page 10)

US

Printing date 09/30/2025

Reviewed on 09/30/2025

Trade name: **Steelkote 147 Yellows**

(Contd. of page 9)

- | | |
|-----------------------------------|---|
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1263 PAINT, 3, II |

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):**

1344-28-1 | aluminium oxide

71-36-3 | butan-1-ol

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

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

13463-67-7 | titanium dioxide

- **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)**

71-36-3 | butan-1-ol

D

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

13463-67-7 | titanium dioxide

A4

1344-28-1 | aluminium oxide

A4

1314-23-4 | zirconium dioxide

A4

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

13463-67-7 | titanium dioxide

- **GHS label elements**

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

- **Hazard pictograms**



GHS02

GHS07

GHS08

(Contd. on page 11)

US

Trade name: Stealkote 147 Yellows

(Contd. of page 10)

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
titanium dioxide
n-butyl acetate
Solvent naphtha (petroleum), light arom.
methyl acetate
- **Hazard statements**
Highly flammable liquid and vapor.
May cause genetic defects.
May cause cancer.
May cause drowsiness or dizziness.
- **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.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
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** *09/30/2025 / -*
- **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)

(Contd. on page 12)

Printing date 09/30/2025

Reviewed on 09/30/2025

Trade name: Steelkote 147 Yellows

(Contd. of page 11)

NFPA: National Fire Protection Association (USA)
HMIS: 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
Flam. Liq. 2: Flammable liquids – Category 2
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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