



# Safety Data Sheet acc. to OSHA HCS

Reviewed on 04/23/2025

## 1 Identification

- · Product identifier
- · Trade name: Steelkote 147 Akron Brass Red
- · Article number: 147R414
- · 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. 1BH340May cause genetic defects.Carc. 1BH350May cause cancer.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction. 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** 



· Signal word Danger

• *Hazard-determining components of labeling:* n-butyl acetate Solvent naphtha (petroleum), light arom. methyl acetate Naphtha (petroleum), hydrotreated heavy Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

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Hazard statements	
Highly flammable liquid and vapor.	
May cause an allergic skin reaction.	
May cause genetic defects.	
May cause cancer.	
May cause drowsiness or dizziness.	
Precautionary statements	_
f medical advice is needed, have product container or label at har	nd.
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 und	
Keep away from heat/sparks/open flames/hot surfaces No smok	king.
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.	
Contaminated work clothing must not be allowed out of the workpl	
Wear protective gloves/protective clothing/eye protection/face pro	tection.
f on skin (or hair): Take off immediately all contaminated clothing.	
'F INHALED: Remove person to fresh air and keep comfortable fo	r breathing.
F exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
f skin irritation or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
n 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/na	ational/international regulations.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 1	
3 Fire = 3	
1 $0$ Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
HEALTH <sup>*2</sup> Health = *2	
FIRE 3 Fire = 3	
REACTIVITY O Reactivity = 0	
Other hazards	
Results of PBT and vPvB assessment	
PBT: Not applicable.	
<b>vPvB:</b> Not applicable.	
Composition/information on ingrediente	
Composition/information on ingredients	

· Chemical characterization: Mixtures

· Description: Hazardous substances listed below.

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(Contd. of page 2) · Dangerous components: >10-<20% 123-86-4 n-butyl acetate 108-65-6 2-methoxy-1-methylethyl acetate >10-≤25% 540-88-5 tert-butyl acetate >2.5-≤10% >2.5-<10% 79-20-9 methyl acetate 110-43-0 Methyl n-amyl ketone >2.5-≤10% 64742-95-6 Solvent naphtha (petroleum), light arom. 0.1-≤2.5% 13463-67-7 titanium dioxide 0.1-≤2.5% 64742-48-9 Naphtha (petroleum), hydrotreated heavy 0.1-≤2.5% 0.1-≤2.5% 1333-86-4 Carbon black 41556-26-7 Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 0.1-<1% 100-41-4 ethylbenzene 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

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	to other sections	
	7 for information on safe handling. 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
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
540-88-5	tert-butyl acetate	600 ppm
79-20-9	methyl acetate	250 ppm
110-43-0	Methyl n-amyl ketone	150 ppm
628-63-7	pentyl acetate	100 ppm
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9.3 mg/m
71-36-3	butan-1-ol	60 ppm
1330-20-7	xylene	130 ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	350 mg/n
1333-86-4	Carbon black	9 mg/m³
100-41-4	ethylbenzene	33 ppm
PAC-2:	1	
	n-butyl acetate	200 ppm
	2-methoxy-1-methylethyl acetate	1,000 ppm
	tert-butyl acetate	1,700 ppm
	methyl acetate	1,700 ppm
	Methyl n-amyl ketone	670 ppm
	pentyl acetate	670 ppm
	titanium dioxide	330 mg/m <sup>3</sup>
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	100 mg/m <sup>3</sup>
	butan-1-ol	800 ppm
1330-20-7	xylene	920* ppm
64742-48-9	Naphtha (petroleum), hydrotreated heavy	1,800 mg/n
	Carbon black	99 mg/m <sup>3</sup>
100-41-4	ethylbenzene	1100* ppm
PAC-3:		
	n-butyl acetate	3000* ppm
	2-methoxy-1-methylethyl acetate	5000* ppm
	tert-butyl acetate	10,000 ppm
	methyl acetate	10,000 ppm
	Methyl n-amyl ketone	4000* ppm
	pentyl acetate	4000* ppm
	titanium dioxide	2,000 mg/m <sup>3</sup>
	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	230 mg/m <sup>3</sup>
	butan-1-ol	8000** ppm
1330-20-7		2500* ppm
	Naphtha (petroleum), hydrotreated heavy	40,000 mg/n
		(Contd. on page

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# 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.

123-80	6-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
108-6	5-6 2-methoxy-1-methylethyl acetate
WEEL	Long-term value: 50 ppm
540-88	8-5 tert-butyl acetate
PEL	Long-term value: 950 mg/m³, 200 ppm
REL	Long-term value: 950 mg/m³, 200 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
79-20-	-9 methyl acetate
PEL	Long-term value: 610 mg/m³, 200 ppm
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REL	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 757 mg/m <sup>3</sup> , 250 ppm
440.4	Long-term value: 606 mg/m <sup>3</sup> , 200 ppm
	3-0 Methyl n-amyl ketone
PEL	Long-term value: 465 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 465 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 233 mg/m³, 50 ppm
	86-4 Carbon black
PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction
100-4	1-4 ethylbenzene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 87 mg/m <sup>3</sup> , 20 ppm BEI
· Inarea	lients with biological limit values:
-	1-4 ethylbenzene
	ime: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) Nedium: end-exhaled air Time: not critical
	arameter: Ethyl benzene (semi-quantitative)
· Addit	ional information: The lists that were valid during the creation were used as basis.
Perso Gener Keep Immed Wash Store Breat In cas expos	sure controls nal protective equipment: ral protective and hygienic measures: away from foodstuffs, beverages and feed. diately remove all soiled and contaminated clothing. hands before breaks and at the end of work. protective clothing separately. hing equipment: re of brief exposure or low pollution use respiratory filter device. In case of intensive or longer ure use respiratory protective device that is independent of circulating air. ction of hands:
The gl	Protective gloves love material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on page 7)

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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

General Information	
Appearance:	
Form:	Liquid
Color:	Red
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)
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:	10.8 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	1.03 g/cm³ (8.6 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

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Solubility in / Miscibility with Water:	Miscible	
Partition coefficient (n-octan	ol/water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	34.2 %	
VOC content:	34.16 %	
	351.8 g/l / 2.94 lb/gal	
Solids content:	53.5 % (by weight)	
Other infomation:	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.

## 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.

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3 2B

#### Carcinogenic categories

· IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide

1330-20-7 xylene

1333-86-4 Carbon black

100-41-4 ethylbenzene

· 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.

## 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.

UN-Number		
DOT, IMDG, IATA	UN1263	
UN proper shipping name		
DOT	Paint	
IMDG, IATA	PAINT	

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Transport hazard class(es)	
DOT	
3	
•	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
3	
•	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E, <u>S-E</u>
Stowage Category	В
Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
<b>~~~~~</b>	On cargo aircraft only: 60 L
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

 $^{\cdot}$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $^{\cdot}$  Sara

None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
71-36-3 butan-1-ol	
1330-20-7 xylene	
100-41-4 ethylbenzene	
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A3

#### • TSCA (Toxic Substances Control Act):

All ingredients are listed.

## · Proposition 65

· Chemicals known to cause cancer:

13463-67-7 titanium dioxide

1333-86-4 Carbon black 100-41-4 ethylbenzene

· 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
1330-20-7	xylene

100-41-4 ethylbenzene

· TLV (Threshold Limit Value established by ACGIH)

13463-67-7 titanium dioxide

1330-20-7 xylene

1333-86-4 Carbon black

100-41-4 ethylbenzene

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

13463-67-7 titanium dioxide

1333-86-4 Carbon black

#### · GHS label elements

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



#### · Signal word Danger

Hazard-determining components of labeling: n-butyl acetate
Solvent naphtha (petroleum), light arom. methyl acetate
Naphtha (petroleum), hydrotreated heavy
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
Hazard statements
Highly flammable liquid and vapor. May cause an allergic skin reaction. May cause genetic defects.
May cause cancer. May cause drowsiness or dizziness.

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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.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate	er/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.	
Specific treatment (see on this label).	
If skin irritation or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
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 r	egulations.
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.

· Date of preparation / last revision 04/23/2025 / -

- 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)
- 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

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<sup>·</sup> Contact: Mr. Williams

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

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TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1B: Carcinogenicity – Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3