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1 Identification

- · Product identifier: 0815486, 0815486V01
- Trade name: WHITE BLACKSTONE® NON-AQUEOUS DYE PENETRANT STANDARD DEVELOPER
- · Item number(s): 0815486, 0815486V01
- · MSDS Number: 423
- Application of the substance / the mixture DYE PENETRANT DEVELOPER
- Manufacturer/Supplier:

USA: Fastenal Company 2001 Theurer Blvd Winona, MN 55987

Canada: Fastenal Company 900 Wabanaki Drive Kitchener, ON, N2C 0B7

www.fastenal.com

- Information department: (507) 454-5374
- Emergency telephone number: ChemTrec (800) 424-9300 Canada only: CANUTEC (Call collect) (613) 996-6666

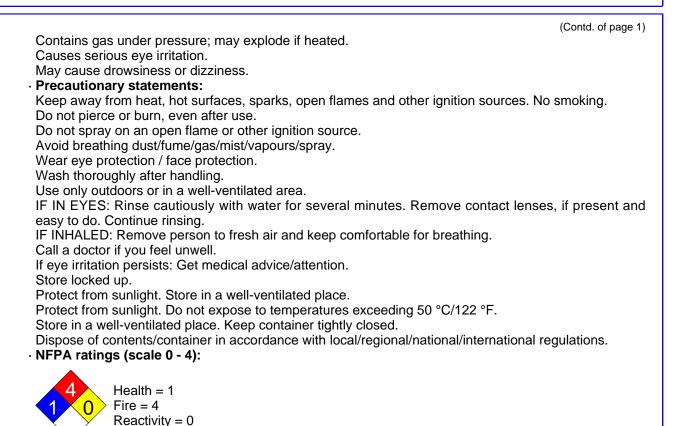
2 Hazard(s) identification

 Classification of the substance or mixture: 	
GHS02 Flame	
Flammable Aerosols - Category 1	H222 Extremely flammable aerosol.
GHS04 Gas cylinder	
Gases Under Pressure - Compressed Gas	H280 Contains gas under pressure; may explode if heated.
GHS07	
Eye Irritation - Category 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure - Category 3 • Label elements • GHS label elements	H336 May cause drowsiness or dizziness.
The product is classified and labeled according to the Signal word: Danger	ne Globally Harmonized System (GHS).
 Hazard-determining components of labeling: acetone 	
Hazard statements: Extremely flammable acrossel	
Extremely flammable aerosol.	(Contd. on page 2)

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-64-1 acetone

30-60% w/w

· Additional information: Exact concentrations are being withheld as trade secrets.

4 First-aid measures

· After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

- After skin contact: Immediately rinse with water.
- After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.

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Safety Data Sheet acc. to OSHA HCS & WHMIS

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• Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- 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: 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.

7 Handling and storage

Handling Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. · Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. · Storage · Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Do not gas tight seal receptacle. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

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• 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.

· Components	with limit values that require monitoring at the workplace:
67-64-1 aceto	
	Short-term value: 500 ppm
· · · ·	Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm
	Long-term value: 500 ppm
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
	BEI
Ingredients v	vith biological limit values:
67-64-1 aceto	one
BEI (USA) 50	
	edium: urine
	me: end of shift
	arameter: Acetone (nonspecific) formation: The lists that were valid during the creation were used as basis.
Immediately ru Wash hands to Store protectiv Avoid contact Avoid contact • Breathing eq • Protection of	om foodstuffs, beverages and feed. emove all soiled and contaminated clothing. before breaks and at the end of work. ve clothing separately. with the eyes. with the eyes and skin. uipment: Use suitable respiratory protective device in case of insufficient ventilation. hands:
	terial has to be impermeable and resistant to the product/ the substance/ the preparation loves: BR NBR



Tightly sealed goggles

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9 Physical and chemical propert	ies	
 Form: Color: Odor: Odor threshold: 	Liquid Under Pressure Cloudy Mild Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-95.3 °C > 56 °C	
· Flash point:	-104 °C (Prop. (-17 °C Liq.))	
· Flammability (solid, gaseous):	Extremely flammable liquefied gas.	
· Ignition temperature:	465 °C	
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: Upper:	2.6 Vol % 13.0 Vol %	
· Vapor pressure at 20 °C:	233 hPa	
 Density at 20 °C: Relative density: Vapour density at 20 °C: Evaporation rate at 20 °C: 	0.715 g/cm ³ Not determined. 2.0 (AIR=1) >5.7 (BA=1)	
 Solubility in / Miscibility with Water: 	Emulsifiable.	
· Partition coefficient (n-octanol/water): Not determined.		
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.	
 Solvent content: Organic solvents: 	54.5 %	
Solids content: • Other information	9.1 %VOC Content:259.994 g/lVOC %: 37% HAP Content:NoneMIR Value: 0.588 g O ₃ /gHeat of Combustion: 31.592 MJ/kg	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- 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:

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

- · Primary irritant effect
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant
- Carcinogenic.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (Interi	national Agency for Research on Cancer)	
7631-86-9	silicon dioxide, chemically prepared	3
14808-60-7	Quartz (SiO2)	1
71-43-2	benzene	1
· NTP (Nation	nal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
71-43-2	benzene	К
· OSHA-Ca (C	Occupational Safety & Health Administration)	
71-43-2 ber	izene	

12 Ecological information

- 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.

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• Other adverse effects: No further relevant information available.

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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:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

UN-Number	
DOT, TDG, IMDG, IATA	UN1950
UN proper shipping name	
	Aerosols, flammable
· TDG · IMDG	1950 Aerosols AEROSOLS
-	AERUGULO
Transport hazard class(es)	
DOT	
T AMART CAS	
Class	2.1
Label	2.1
TDG (Transport dangerous goods):	
2	
Class	2 5F Gases
Label	2.1
IMDG, IATA	
····· • • • • • • • • • • • • • • • • •	
V	
Class	2.1
Label	2.1
Packing group DOT, TDG, IMDG, IATA	Not regulated

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	(Contd. of page
Environmental hazards: Marine pollutant:	No
Special precautions for user:	Warning: Gases
Danger code (Kemler):	
EMS Number:	F-D,S-U SW1 Protected from sources of heat.
Stowage Code	SW1 Protected from sources of field. SW22 For AEROSOLS with a maximum capacity of
	litre: Category A. For AEROSOLS with a maximum capacity of
	1 litre: Category B. For WASTE AEROSOLS: Categor
	C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of
eeg.egalen eeae	litre: Segregation as for class 9. Stow "separated from
	class 1 except for division 1.4. For AEROSOLS with
	capacity above 1 litre: Segregation as for the appropriat
	subdivision of class 2. For WASTE AEROSOLS
	Segregation as for the appropriate subdivision of class 2
Transport in bulk according to Annex MARPOL73/78 and the IBC Code:	Il of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 75 kg
-	On cargo aircraft only: 150 kg
Remarks:	This product may be shipped according to the Limite
	Quantity Exceptions provided that all Limited Quantit
	shipping requirements are met.
TDG	This product may be shipped according to the Limite
	Quantity Exceptions provided that all Limited Quantit
Exponented quantities (EQ)	shipping requirements are met. Code: E0
Excepted quantities (EQ)	Not permitted as Excepted Quantity
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Remarks:	This product may be shipped according to the Limite
	Quantity Exceptions provided that all Limited Quantit
	shipping requirements are met.
ΙΑΤΑ	
Remarks:	This product may be shipped according to the Limite
	Quantity Exceptions provided that all Limited Quantit
	shipping requirements are met.
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
en model regulation i	S.T. 1000 / E. (000 E., 2.1

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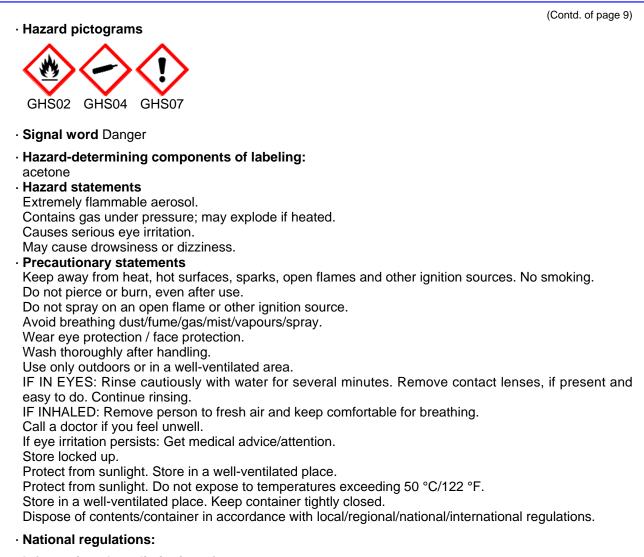
· Safety, neal · Sara	th and environmental regulations/legislation specific for the s	substance or mixture
· Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
· Section 313	(Specific toxic chemical listings):	
71-43-2 ber	izene	
•	c Substances Control Act):	
-	ts are listed or exempted	
 Proposition 		
	known to cause cancer:	
	Quartz (SiO2)	
	benzene	
	known to cause reproductive toxicity for females:	
	ingredients is listed.	
	known to cause reproductive toxicity for males:	
71-43-2 ber		
	known to cause developmental toxicity:	
71-43-2 ber	izene	
· Carcinogen	ic categories	
· EPA (Enviro	onmental Protection Agency):	
67-64-1 ace		
71-43-2 ber	izene	A, K/
· TLV (Thres	nold Limit Value established by ACGIH):	
67-64-1		A
	Quartz (SiO2)	A
71-43-2	benzene	A
	National Institute for Occupational Safety and Health):	
14808-60-7	Quartz (SiO2)	
	benzene	
	ubstance listings	
	omestic Substances List (DSL):	
All ingredien		
	ngredient Disclosure list (limit 0.1%):	
	ingredients is listed.	
	igredient Disclosure list (limit 1%):	
67-64-1 a		
	silicon dioxide, chemically prepared	

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· 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.

16 Other information

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond our control. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.

- · Department issuing SDS: Product safety department
- · Contact: Stephen Nowicki
- · Date of preparation / last revision 01/28/2016 / 2
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

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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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety	(Contd. of page 10)
OSHA: Occupational Safety & Health Flammable Aerosols - Category 1: Flammable aerosols, Hazard Category 1 Gases Under Pressure - Compressed Gas: Gases under pressure: Compressed gas Eye Irritation - Category 2A: Serious eye damage/eye irritation, Hazard Category 2A Specific Target Organ Toxicity - Single Exposure - Category 3: Specific target organ toxicity - Single exposu 3	re, Hazard Category