Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations



Davidson Marking System® Orange Dye all sizes Safety Data Sheet (SDS)

Item #s 1013-6, 1101-6, 1163-6, 3408-6 and included in Set Item #s 2407, 2406, 2401, 2403, 1207, 1007 and included in sample sets of dyes

Bradley
Products Inc

Bradley Products, Inc. encourages safe handling of this product. To promote safe handling, each recipient should; 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this SDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers and other users of the product of this information.

SECTION 1: Identification of	the substance/mixture an dof the co	ompany/undertaking	
1.1. Product Identifier	an en an de annatable es les reactes aux par els remontables alles de la constitución de la constitución de la	Company of the Compan	
Product form	: Mixture	·	
Product name	: Davidson Marking System®	Orange Dve all sizes	
CAS No	: Proprietary	0.4.1.go = ) 0 4.1. 5.440	
Product Code	: 1013-6, 1101-6, 1163-6, 3408-6 and included in Set Item #s 2407, 2406, 2401, 2403, 1207, 1007 and included in sample sets of dyes		
1.2. Relevant identifie	d uses of the substance or mixture and	d uses advised against	
Use of substance/mixture	: Dispersion; Pigment Orange	16 (CAS No. 6505-28-	8)
1.3. Details of the sup	pplier of the SDS (Safety Data Sheet)		
Bradley Products, Inc.			
1700 W 94th Str			
Bloomington, MN 55431-1300 USA			
T 800-325-7785 T 952-881-1430			
www.bradleyproducts.com / dms@			
Emergency telephone number	: Bradley Products 800-325-7	795	
Entergency telephone number	; Bladley Floducts 600-325-7	700	
SECTION 2: Hazards identifi	cation		
1-31	he substance or mixture	hara de la companya d	
Classification (GHS-US)			
Not classified			
2.2. Label elements	All the second of the second	270.00	A site
GHS-US labeling			
No labeling applicable			
2.3. Other hazards			
No additional information available			
	oxicity (GHS-US)		
No data available			
	ormation on ingredients		
SECTION 3: Composition/ini			
		28	
3.1. Substances	6		
3.1. Substances Not applicable Full text of H-phrases: see section	6		
3.1. Substances Not applicable Full text of H-phrases; see section	6		
3.1. Substances Not applicable Full text of H-phrases: see section	6 Product identifier	(500 Ann 1875 (1) A	Classification (GHS-US
3.1. Substances  Not applicable  Full text of H-phrases: see section 3.2. Mixtures			
3,1. Substances  Not applicable  Full text of H-phrases; see section 3.2. Mixtures	Product identifier	%	Classification (GHS-US Acute Tox. 4 (oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A. H314

Safety Data Sheet according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

SECTION 4: First	බ්රග දෙන අතර කිරීම සහ අතර කිරීම
4.1. Desc	iption of first aid measures
First-aid measures gene	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medic
-	advice (show the label where possible),
First-aid measures after	
First-aid measures after	skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,
	followed by warm water rinse.  Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or
First-aid measures after	eye contact redness persist.
First-aid measures after	
4.2. Most	important symptoms and effects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4,3. Indica	tion of any immediate medical attention and special treatment needed
No additional informatio	
SECTIONS: Fligh	of the same of the
5.1. Exting	uishing media
Suitable extinguishing m	
Unsuitable extinguishing	
	al hazards arising from the substance or mixture
No additional information	
5.3. Advic	e for firefighters
	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting
Firefighting instructions	any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefigh	ting : Do not enter fire area without proper protective equipment, including respiratory protection
SECTION 6: Accid	ental release measures
1.000	
	nal precautions, protective equipment and emergency procedures
3.1. Perso 3.1.1. For no	
5.1. Perso	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er	nal precautions, protective equipment and emergency procedures on-emergency personnel
5.1. Perso 5.1.1. For no Emergency procedures	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel. nergency responders : Equip cleanup crew with proper protection.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel. nergency responders : Equip cleanup crew with proper protection. : Ventilate area.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel. nergency responders : Equip cleanup crew with proper protection.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel. nergency responders : Equip cleanup crew with proper protection. : Ventilate area. onmental precautions and public waters. Notify authorities if liquid enters sewers or public waters.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  nomental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho	nal precautions, protective equipment and emergency procedures on-emergency personnel : Evacuate unnecessary personnel. nergency responders : Equip cleanup crew with proper protection. : Ventilate area. nomental precautions and public waters. Notify authorities if liquid enters sewers or public waters. ds and material for containment and cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
5.1. Perso 5.1.1. For no 5.1.2. For experience equipment 5.1.2. For experience equipment 6.2. Enviro 6.2. Enviro 6.3. Methods for cleaning up	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers 6.3. Metho Methods for cleaning up 6.4. Refere	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  nomental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers 6.3. Metho Methods for cleaning up 6.4. Refere	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.
5.1. Perso 5.1. For no 5.1.1. For no 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Reference	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  nomental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 6.4. Refero See Heading 8	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  nergency responders  : Equip cleanup crew with proper protection.  : Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  ence to other sections  : Exposure controls and personal protection.  ing and storage  utions for safe handling
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers 6.3. Metho Methods for cleaning up 6.4. Refero See Heading 8  SECTION 7: Hand	in precautions, protective equipment and emergency procedures on-emergency personnel  Evacuate unnecessary personnel.  Equip cleanup crew with proper protection.  Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  Soak up spills with inert sollds, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  ence to other sections  Exposure controls and personal protection.  ing and storage  utions for safe handling  Wash hands and other exposed areas with mild soap and water before eat, drink or
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 6.2. Enviro Prevent entry to sewers 6.3. Metho Methods for cleaning up 6.4. Refero See Heading 8  SECTION 7: Hand 1.1. Precan	in precautions, protective equipment and emergency procedures on-emergency personnel  Evacuate unnecessary personnel.  Equip cleanup crew with proper protection.  Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials, ence to other sections  Exposure controls and personal protection.  ing and storage  witions for safe handling  Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent
5.1. Perso 5.1.1. For no 5.1.1. For no 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 6.4. Refero See Heading 8  SECTION 7: Hand Precautions for safe han	inal precautions, protective equipment and emergency procedures con-emergency personnel : Evacuate unnecessary personnel. inergency responders : Equip cleanup crew with proper protection, : Ventilate area. Inmental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. ence to other sections : Exposure controls and personal protection.  ing and storage  utions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refero See Heading 8  SECTION 7: Handle Transport of the procedures Precautions for safe han 5.2. Conditions 5.1. For example of the procedures 6.2. Conditions 6.3. Conditions 6.4. Refero 6.5. Refero 6.6. Refero 6.6. Refero 6.7. Precautions for safe han 6.7. Conditions 6.7. Condition	inal precautions, protective equipment and emergency procedures in-emergency personnel i Evacuate unnecessary personnel. inergency responders i Equip cleanup crew with proper protection. i Ventilate area. inmental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up i Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage, Store away from other materials. In the content of the sections I ing and storage  Utions for safe handling I Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of yapor.  I ions for safe storage, including any incompatibilities
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refero See Heading 8  SECTION 7: Handle The Condition of the condi	inal precautions, protective equipment and emergency procedures con-emergency personnel  Evacuate unnecessary personnel.  Equip cleanup crew with proper protection.  Ventilate area.  Inmental precautions and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  Exposure controls and personal protection.  ing and storage  utions for safe handling  Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.  ions for safe storage, including any incompatibilities  Keep only in the original container in a cool, well ventilated place away from
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refer See Heading 8 SECTION 7: Hand Precautions for safe han 1.2. Conditions	inal precautions, protective equipment and emergency procedures in emergency personnel iterative dependence in Equip cleanup crew with proper protection. iterative dependence it
5.1. Perso 5.1. For no 5.1.1. For no 5.1.1. For no 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refero See Heading 8 SECTION 7: Hand	inal precautions, protective equipment and emergency procedures on-emergency personnel  Evacuate unnecessary personnel.  Equip cleanup crew with proper protection.  Ventilate area.  Inmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  In and storage  Utions for safe handling  Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.  In safe storage, including any incompatibilities  Keep only in the original container in a cool, well ventilated place away from  Keep container closed when not in use.  Stong bases. Stong acids.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refer 6ee Heading 8  SECTION 7: Hand Precautions for safe han 1.2. Conditions Incompatible products	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  mergency responders  : Equip cleanup crew with proper protection. : Ventilate area.  mmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  ence to other sections  : Exposure controls and personal protection.  ing and storage  utions for safe handling  : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor,  ions for safe storage, including any incompatibilities  : Keep only in the original container in a cool, well ventilated place away from  : Keep container closed when not in use. : Stong bases. Stong acids. : Sources of ignition. Direct sunlight.
5.1. Perso 5.1.1. For no Emergency procedures 5.1.2. For er Protective equipment Emergency procedures 5.2. Enviro Prevent entry to sewers 5.3. Metho Methods for cleaning up 5.4. Refer 6ee Heading 8  SECTION 7: Hand Precautions for safe han 6.2. Condit 6torage conditions Incompatible products Incompatible materials	nal precautions, protective equipment and emergency procedures on-emergency personnel  : Evacuate unnecessary personnel.  mergency responders  : Equip cleanup crew with proper protection. : Ventilate area.  mmental precautions  and public waters. Notify authorities if liquid enters sewers or public waters.  ds and material for containment and cleaning up  : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  Collect spillage. Store away from other materials.  ence to other sections  : Exposure controls and personal protection.  ing and storage  utions for safe handling  : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor,  ions for safe storage, including any incompatibilities  : Keep only in the original container in a cool, well ventilated place away from  : Keep container closed when not in use. : Stong bases. Stong acids. : Sources of ignition. Direct sunlight.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

SECTION 8:	Exposure controls / personal protection		
8.1.	Control parameters	Control of the Contro	
Sodium hydroxide (1310-73-2)			
USA ACGIH	· ACGIH Ceiling (mg/m³)	2 mg/m³	
UDS OSHA	OSHA PEL (TWA) (mg	m³) 2 mg/m³	
UDS NIOSH	NIOSH REL (celing) (r	g/m³) 2 mg/m³	
UDS IDLH	US IDLH (mg/m³)	10 mg/m <sup>3</sup>	

Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

: Chemical goggles or safety glasses. Eye protection

: Wear approved mask. Respiratory protection

Other information : When using, do not eat, drink or smoke.

9.1. Information on basic phy	sical and chemical properties
Physical state	: liquid
Appearance	: orange liquid
Color	; orange
Odor	: ammonia-like
Odor threshold	: no data available
pH	: 8,5 - 9,5
Relative evaporation rate (butyl acetate-1)	: no data available
Melting point	; no data available
Freezing point	: no data available
Boiling point	; no data available
Flash point	: no data available
Self ignition temperature	: no data available
Decomposition temperature	: no data available
Flammability (solid, gas)	: no data available
Vapor pressure	; no data available
Relative vapor density at 20°C	: no data available
Relative density	: no data avaílable
Density	:1.1 g/ml
Solubility	: Water Dispersible
Log Pow	: no data available
Log Kow	: no data available
Viscosity, kinematic	; no data available
Viscosity, dynamic	: no data available
Explosive properties	; no data available
Oxidizing properties	: no data available
Explosive limits	: no data available

No additional in	formation available	

SECTION 10:	Stability and reactivity	
10.1.	Reactivity	
No additional int	formation available	
10.2.	Chemical stability	
Stable at recom	mended storage temperatur	
10.3.	Possibility of hazardous re	eactions
Not established		
10.4.	Conditions to avoid	
Direct sunlight, I	Extremely high or low tempe	
10.5	Incompatible materials	

Stong acids. Strong bases

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

10.6. Hazardous decomposite Carbon monoxide, carbon dioxide, nitroge	tion products
Carbon monoxide, carbon dioxide, filiroge	en oxide.
SECTION 11: Toxicological informa	ation
11.1. Information on toxicolo	gical effects
Acute toxicity	: Not classified
Ammonium hydroxide (1336-21-6)	
LD50 oral rat	350 mg/kg
ATE (oral)	350,000 mg/kg
Sodium hydroxide (1310-73-2) LD50 dermal rabbit	1350 mg/kg
ATE CLP (dermal)	1350.000 mg/kg body weight
1,2-Benzisothiazolin-3-one (2634-33-5)	
LD50 oral rabbit	1020 mg/kg
ATE CLP (oral)	1020,000 mg/kg body weight
Skin corrosion / irritation	: Not classified
	: pH: 8.5 - 9.5
Serious eye damage / irritation	: Not classified
Danistas and in actification	: pH; 8,5 - 9,5
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified : Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	
exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard Potential Adverse human health effects a	: Not classified
symptoms	: Based on available data, the classification criteria are not met.
SECTION (2: Geological/informatic	10.
12.1. Toxicity	
Ammonium hydroxide (1336-21-6)	
LC50 fish 1	8.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.66 mg/l (Exposure time: 48 h - Species; water flea)
1	
EC50 Daphnia 1	0.66 mg/l (Exposure time: 48 h - Species; water flea)
EC50 Daphnia 1 EC50 Daphnia 2	0.66 mg/l (Exposure time: 48 h - Species; water flea)
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1	0.66 mg/l (Exposure time: 48 h - Species: water flea) 0.66 mg/l (Exposure time: 48 h - Species: Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus myklss [static])
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus myklss [static])  dability
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus myklss [static])  dability  (e (all sizes) (proprietary)
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus myklss [static])  dability
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability Ammonium hydroxide (1336-21-6)	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus myklss [static])  dability  (e (all sizes) (proprietary)
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrac Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6)	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability	0.66 mg/l (Exposure time: 48 h - Species: water flea) 0.66 mg/l (Exposure time: 48 h - Species: Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])  dability  /e (all sizes) (proprietary)  Not established.  Not established.
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potent	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,  Not established.  Not established.
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potent Davidson Marking System® Orange Dy	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static]) dability  //e (all sizes) (proprietary) Not established.  Not established.  Not established.  (all sizes) (proprietary)
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potential	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,  Not established.  Not established.
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potential  Davidson Marking System® Orange Dy Bioaccumulative potential  Ammonium hydroxide (1336-21-6)	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established.  Not established.  itial  /e (all sizes) (proprietary)  Not established.
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potential  Davidson Marking System® Orange Dy Bioaccumulative potential  Ammonium hydroxide (1336-21-6) Bioaccumulative potential	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static]) dability  //e (all sizes) (proprietary) Not established.  Not established.  Not established.  (all sizes) (proprietary)
EC50 Daphnia 1 EC50 Daphnia 2 Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrace Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potential  Davidson Marking System® Orange Dy Bioaccumulative potential  Ammonium hydroxide (1336-21-6) Bioaccumulative potential  1,2-Benzisothiazolin-3-one (2634-33-5)	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established,  Not established.  fial  /e (all sizes) (proprietary)  Not established.  Not established.
EC50 Daphnia 1 EC50 Daphnia 2  Sodium hydroxide (1310-73-2) LC50 fish 1  12.2. Persistence and degrad Davidson Marking System® Orange Dy Persistence and degradability  Ammonium hydroxide (1336-21-6) Persistence and degradability  1,2-Benzisothiazolin-3-one (2634-33-5) Persistence and degradability  12.3. Bioaccumulative potential  Davidson Marking System® Orange Dy Bioaccumulative potential  Ammonium hydroxide (1336-21-6) Bioaccumulative potential	0.66 mg/l (Exposure time: 48 h - Species; water flea) 0.66 mg/l (Exposure time: 48 h - Species; Daphnia pulex)  45.4 mg/l (Exposure time: 96 h - Species; Oncorhynchus myklss [static])  dability  /e (all sizes) (proprietary)  Not established.  Not established.  itial  /e (all sizes) (proprietary)  Not established.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

Mobility in soil and the second s

No additional information available.

Other adverse effects 12.5.

Other Information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods 

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/state and national regulations.

: Avoid release to the environment. Ecology - waste materials

SECTION 14: **Transport Information** 

In accordance with ADR / RID / IMDG / IATA / AND

14.1. UN number

Not applicable

Hazard Classes

UN proper shipping name 14.2.

US Department of Transportation (DOT)

: Not regulated.

Additional Information 14.3.

Other information : No supplementary information available

Overland Transport

: Not regulated. ADR

Transport by sea

: Not regulated, **IMDG** 

Air transport

IATA : Not regulated,

Regulatory information **SECTION 15:** 

US Federal regulations 15.1.

Ammonium hydroxide (1336-21-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium hydroxide (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

1,2-Benzisothiazolin-3-one (2634-33-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations 15.2.

CANADA

Ammonium hydroxide (1336-21-6)

Listed on the Canadian DSL (Domestic Substances List) inventory,

WHMIS Classification

Class E - Corrosive Material

Sodium hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class E - Corrosive Material

1,2-Benzisothiazolin-3-one (2634-33-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects.

EU-Regulations

Ammonium hydroxide (1336-21-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Sodium hydroxide (1310-73-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

1,2-Benzisothiazolin-3-one (2634-33-5)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances,

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2.

National regulations

Davidson Marking System® Orange Dye (all sizes) (proprietary)

Components listed on the United States TSCA (Toxic Substances Control Act) inventory.

Components listed on the Canadian DSL (Domestic Substances List) inventory.

Ammonium hydroxide (1336-21-6)

isted on the Aics (the Australian Inventory of Chemical Substance

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory

Listed on the Korean ECL (Existing Chemical List) inventory

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Poisonous and Deleterious Substances Control Law

isted on the Canadian Ingradient Disclosure Li

Sodium hydroxide (1310-73-2)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory

Listed on the Korean ECL (Existing Chemical List) inventory

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Poisonous and Deleterious Substances Control Law

Listed on the Canadian Ingradiant Disclosure List

1,2-Benzisothiazolin-3-one (2634-33-5)

Listed on the AICS (the Australian inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory

Listed on the Korean ECL (Existing Chemical List) inventory

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

15.3.

US State regulations

Ammonium hydroxide (1336-21-6)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Louisiana - Reportable Quantity list for Pollutants

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Polluting Materials List

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) - List

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	

### Sodium hydroxide (1310-73-2)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (Els)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Louisiana Reportable Quantity list for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits Ceilings
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 1-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U,S, Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits Ceilings
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits Ceilings
- U.S. Washington Permissible Exposure Limits Ceilings
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emission From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emission From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emission From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emission From Stack Heights Less Than 25 Feet

### 1,2-Benzisothiazolin-3-one (2634-33-5)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

#### SECTION 16: Charitamenten

Other information
Full Text of H-phrases; see section 16:

: None

1 di Takt Giff pinacas: 300 Souton 10;	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Skin Corr. 1A	Skin corrosion / irritation Category 1A
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage

HMIS III Rating

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations

Davidson Marking System® Green Dye		
HEALDH)		Ú
FLAMMABILITY		0
PHYSICAL		0
PERSONAL PRO	TECTION	Н

Health Flammability Physical

- : 1 Slight Hazard Irritation or minor reversible injury possible
- : 0 Minimal Hazard Materials that will not burn
- : 0 Minimal Hazard Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal Protection : H Splash goggles, Gloves, Synthetic apron, Vapor respirator

#### SDS US (GHS HazCom 2012) - HMIS III

While Bradley Products, Inc. believes the data set forth herein are accurate as of the date hereof, Bradley Products, Inc. makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.