

SAFETY DATA SHEET

4 KP

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Printed: 05/13/2015

Revision: 04/06/2015

Supersedes Revision: 02/10/2015

1. Product and Company Identification

Product Code: 231080
Product Name: 4 KP
Company Name: IBA
27 Providence Rd.
Millbury, MA 01527
Phone Number: 1 (508)865-6911
Emergency Contact: Chemtrec 1 (800)424-9300

2. Hazards Identification

Skin Corrosion/Irritation, Category 3

Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: **Warning**

GHS Hazard Phrases: Causes mild skin irritation.
Causes eye irritation.

GHS Precaution Phrases: Keep out of reach of children.
Read label before use.
Do not get in eyes, on skin, or on clothing.
Wash hands thoroughly after handling.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
IF ON SKIN: Remove immediately all contaminated clothing and wash it before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance to local, state and federal regulations.

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:

Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide	<1.0 %
27176-87-0	Dodecylbenzenesulfonic acid	<5.0 %
10213-79-3	Sodium meta silicate	1.0 - 10 %
7320-34-5	Potassium pyrophosphate	1.0 - 10 %
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	<2.0 %
107-98-2	2-Propanol, 1-Methoxy-	<1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Skin Contact: Wash any sensitive areas. If skin irritation occurs: Get medical advice/attention.

In Case of Eye Contact: Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

In Case of Ingestion: Do not induce vomiting. Rinse mouth with fresh, Tepid water, than immediately drink 4-8 oz. or milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, CO2, sand, earth, water spray or regular foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Rubber or neoprene gloves, Safety glasses, Wear chemical protective clothing.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing: Keep from freezing.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide	No data.	CEIL: 2 mg/m3	No data.
27176-87-0	Dodecylbenzenesulfonic acid	No data.	No data.	No data.
10213-79-3	Sodium meta silicate	No data.	No data.	No data.
7320-34-5	Potassium pyrophosphate	No data.	No data.	No data.
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
107-98-2	2-Propanol, 1-Methoxy-	No data.	TLV: 100 ppm	No data.

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STEL: 150 ppm

Respiratory Equipment (Specify Type): A respirator is not needed under normal and intended conditions of product use.

Eye Protection: As needed

Protective Gloves: As needed

Other Protective Clothing: As needed

Engineering Controls (Ventilation etc.): No data available.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Clear Colorless Liquid
Odor: No apparent odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.140 - 1.200

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: 100

pH: Alk.

Percent Volatile: No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Avoid handling conditions which may allow for leaks and spills of this material.

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Eye contact, Skin contact

Irritation or Corrosion: Eyes: Causes serious eye irritation.

Skin: Causes mild skin irritation.

Ingestion: Health injuries are not known or expected under normal use.

Inhalation: Health injuries are not known or expected under normal use.

Symptoms related to Eyes: Redness, pain, irritation.

Toxicological Skin: Redness, pain, irritation.

Characteristics: Ingestion: No symptoms known or expected.

Inhalation: No symptoms known or expected.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-58-3	Potassium hydroxide	n.a.	n.a.	n.a.	n.a.
27176-87-0	Dodecylbenzenesulfonic acid	n.a.	n.a.	n.a.	n.a.
10213-79-3	Sodium meta silicate	n.a.	n.a.	n.a.	n.a.
7320-34-5	Potassium pyrophosphate	n.a.	n.a.	n.a.	n.a.
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	n.a.	n.a.	n.a.	n.a.
107-98-2	2-Propanol, 1-Methoxy-	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: This product has no known ecotoxicological effects.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound Cleaning, Not Regulated

DOT Hazard Class:

UN/NA Number:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
27176-87-0	Dodecylbenzenesulfonic acid	No	Yes 1000 LB	No
10213-79-3	Sodium meta silicate	No	No	No
7320-34-5	Potassium pyrophosphate	No	No	No
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	No	No	No
107-98-2	2-Propanol, 1-Methoxy-	No	No	No

CAS # **Hazardous Components (Chemical Name)** **Other US EPA or State Lists**

1310-58-3 Potassium hydroxide CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ

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27176-87-0	Dodecylbenzenesulfonic acid	EHS: Yes - 1571; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 0822; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No
10213-79-3	Sodium meta silicate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
7320-34-5	Potassium pyrophosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0804; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
107-98-2	2-Propanol, 1-Methoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1613; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

16. Other Information

Revision Date: 04/06/2015

Additional Information About This Product: Company's Disclaimer: While IBA believes this statement set forth herein are accurate as of the date hereof, IBA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

1. Product and Company Identification

Product Code:	162530	
Product Name:	4XLA Activator	
Company Name:	IBA	Phone Number:
	27 Providence Rd.	1 (508)865-6911
	Millbury, MA 01527	
Emergency Contact:	Chemtrec	1 (800)424-9300

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: **Warning**

GHS Hazard Phrases: Causes eye irritation.

GHS Precaution Phrases: Keep out of reach of children.
Read label before use.
Do not get in eyes, on skin, or on clothing.
Wear rubber gloves, chemical goggles, face shield and rubber apron.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get medical advice/attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
IF ON SKIN: Remove immediately all contaminated clothing and wash it before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance to local, state and federal regulations.

Hazard Rating System:

HEALTH		1
FLAMMABILITY		0
PHYSICAL		0
PPE		B

HMIS:

Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
50-21-5	Lactic acid	2.5 - 2.8 %

4. First Aid Measures

Emergency and First Aid Procedures:

- In Case of Skin Contact:** For ready-to-use products, wash any sensitive areas. If skin irritation occurs, get medical advice/attention.
- In Case of Eye Contact:** Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Get medical advice/attention.
- In Case of Ingestion:** Do not induce vomiting. Rinse mouth with fresh, Tepid water, than immediately drink 4-8 oz. or milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical advice/attention.

5. Fire Fighting Measures

- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Dry chemical, CO2, sand, earth, water spray or regular foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Flammable Properties and Hazards:** No data available.

6. Accidental Release Measures

- Protective Precautions, Protective Equipment and Emergency Procedures:** Safety glasses, rubber or neoprene gloves. Wear chemical protective clothing.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb spill with inert material (e.g. dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

- Precautions To Be Taken in Handling:** For industrial or institutional use only.
- Precautions To Be Taken in Storing:** Store locked up. Keep from freezing. Store away from incompatible substances

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
50-21-5	Lactic acid	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	A respirator is not needed under normal and intended conditions of product use.
Eye Protection:	Safety glasses
Protective Gloves:	Rubber or neoprene gloves
Other Protective Clothing:	Wear chemical protective clothing.
Engineering Controls (Ventilation etc.):	Handle in accordance with good industrial hygiene and safety practice. In a well ventilated area. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Appearance: Dark Orange Liquid Odor: No apparent odor.	
Melting Point:	No data.	
Boiling Point:	No data.	
Autoignition Pt:	No data.	
Flash Pt:	No data.	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	1.030 - 1.070	
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	
Evaporation Rate:	No data.	
Solubility in Water:	100	
Viscosity:	> 40 cps.	
pH:	2.0 - 3.0	
Percent Volatile:	No data.	

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.
Incompatibility - Materials To Avoid:	Avoid contact with alkalis and chlorine products. Avoid contact with materials such as aluminum, tin, zinc, and alloys containing these materials
Hazardous Decomposition Or Byproducts:	No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact

Irritation or Corrosion: Eyes: Causes eye irritation.

Skin: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Symptoms related to Toxicological Characteristics:

Eyes: Redness, pain, irritation.

Skin: No symptoms known or expected.

Ingestion: No symptoms known or expected.

Inhalation: No symptoms known or expected.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
50-21-5	Lactic acid	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: This product has no known ecotoxicological effects.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound cleaning, Not Regulated

DOT Hazard Class:

UN/NA Number: **Packing Group:** III

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
50-21-5	Lactic acid	No	No	No

CAS # **Hazardous Components (Chemical Name)**

50-21-5 Lactic acid

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

16. Other Information

Revision Date: 01/20/2015

Additional Information About This Product: Company's Disclaimer: While IBA believes this statement set forth herein are accurate as of the date hereof, IBA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

Company Policy or Disclaimer:

1. Product and Company Identification

Product Code: 162528
Product Name: 4XLA Base
Company Name: IBA
 27 Providence Rd.
 Millbury, MA 01527
Phone Number: 1 (508)865-6911
Emergency Contact: Chemtrec 1 (800)424-9300

2. Hazards Identification

Skin Corrosion/Irritation, Category 3
Aquatic Toxicity (Acute), Category 3
Aquatic Toxicity (Chronic), Category 3

GHS Signal Word: **Warning**

GHS Hazard Phrases: Causes mild skin irritation.
 Harmful to aquatic life.
 Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases: Keep out of reach of children.
 Read label before use.
 Do not get in eyes, on skin, or on clothing.
 Wear rubber gloves, chemical goggles, face shield and rubber apron.
 Wash hands thoroughly after handling.
 Avoid release to the environment.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get medical advice/attention.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
 IF ON SKIN: Remove immediately all contaminated clothing and wash it before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance to local, state and federal regulations.
 Store locked up.

Hazard Rating System:

HEALTH	2
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:

Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7758-19-2	Sodium chlorite	0.61 - 0.67 %
1310-73-2	Sodium hydroxide	0.036 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Skin Contact: Flush thoroughly with fresh, tepid water for 15 minutes. Discard contaminated clothing and footwear or wash before reuse. If skin irritation occurs: Get medical advice/attention.

In Case of Eye Contact: Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Get medical advice/attention.

In Case of Ingestion: Do not induce vomiting. Rinse mouth with fresh, Tepid water, than immediately drink 4-8 oz. or milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical attention immediately.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, CO2, sand, earth, water spray or regular foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Safety glasses, rubber or neoprene gloves. Wear chemical protective clothing.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: For industrial or institutional use only.

Precautions To Be Taken in Storing: Store locked up. Keep from freezing.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7758-19-2	Sodium chlorite	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

Respiratory Equipment (Specify Type): A respirator is not needed under normal and intended conditions of product use.

Eye Protection: Safety glasses

Protective Gloves: Rubber or neoprene gloves

Other Protective Clothing: Wear chemical protective clothing.

Engineering Controls (Ventilation etc.): Handle in accordance with good industrial hygiene and safety practice. In a well ventilated area. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Clear Colorless Liquid
Odor: No apparent odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.00 - 1.02

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: 100

Viscosity: 1 - 2 cps.

pH: 11.5 - 12.5

Percent Volatile: No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact
Irritation or Corrosion: Eyes: Causes serious eye irritation.
 Skin: Causes skin irritation.
 Ingestion: Can cause digestive trac pain.
 Inhalation: No known significant effects or critical hazards.
Symptoms related to Toxicological Characteristics:
 Eyes: Redness, pain, irritation.
 Skin: Redness, pain, irritation
 Ingestion: Corrosion, Abdominal pain
 Inhalation: No symptoms known or expected.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7758-19-2	Sodium chlorite	n.a.	3	n.a.	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: Harmful to aquatic life.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Compound cleaning, Not Regulated
DOT Hazard Class:
UN/NA Number:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7758-19-2	Sodium chlorite	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7758-19-2	Sodium chlorite	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1689; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
1310-73-2	Sodium hydroxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

16. Other Information

Revision Date: 01/20/2015

Additional Information About This Product: Company's Disclaimer: While IBA believes this statement set forth herein are accurate as of the date hereof, IBA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

1. Product and Company Identification

Product Code: 162626
Product Name: 5 Star Activator
Company Name: IBA
 27 Providence Rd.
 Millbury, MA 01527
Phone Number: 1 (508)865-6911
Emergency Contact: Chemtrec 1 (800)424-9300

2. Hazards Identification

Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: **Warning**
GHS Hazard Phrases: Causes eye irritation.
GHS Precaution Phrases: Keep out of reach of children.
 Read label before use.
 Do not get in eyes, on skin, or on clothing.
 Wear rubber gloves, chemical goggles, face shield and rubber apron.
GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get medical advice/attention.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
 IF ON SKIN: Remove immediately all contaminated clothing and wash it before reuse.
 Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance to local, state and federal regulations.

Hazard Rating System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:

Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
50-21-5	Lactic acid	1.7 - 1.9 %

4. First Aid Measures

Emergency and First Aid Procedures:

- In Case of Skin Contact:** For ready-to-use products, wash any sensitive areas. If skin irritation occurs, get medical advice/attention.
- In Case of Eye Contact:** Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Get medical advice/attention.
- In Case of Ingestion:** Do not induce vomiting. Rinse mouth with fresh, Tepid water, than immediately drink 4-8 oz. or milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical attention immediately.

5. Fire Fighting Measures

- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Dry chemical, CO2, sand, earth, water spray or regular foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Flammable Properties and Hazards:** No data available.

6. Accidental Release Measures

- Protective Precautions, Protective Equipment and Emergency Procedures:** Safety glasses, rubber or neoprene gloves. Wear chemical protective clothing.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Absorb spill with inert material (e.g. dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

- Precautions To Be Taken in Handling:** For industrial or institutional use only.
- Precautions To Be Taken in Storing:** Store locked up. Keep from freezing. Store away from incompatible substances

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
50-21-5	Lactic acid	No data.	No data.	No data.

SAFETY DATA SHEET

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Respiratory Equipment (Specify Type):	A respirator is not needed under normal and intended conditions of product use.
Eye Protection:	Safety glasses
Protective Gloves:	Rubber or neoprene gloves
Other Protective Clothing:	Wear chemical protective clothing.
Engineering Controls (Ventilation etc.):	Handle in accordance with good industrial hygiene and safety practice. In a well ventilated area. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Appearance: Dark Orange Liquid Odor: No apparent odor.
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.00 - 1.03
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	No data.
Solubility in Water:	100
Viscosity:	> 400 cps.
pH:	2.0 - 3.0
Percent Volatile:	No data.

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.
Incompatibility - Materials To Avoid:	Avoid contact with alkalis and chlorine products. Avoid contact with materials such as aluminum, tin, zinc, and alloys containing these materials
Hazardous Decomposition Or Byproducts:	No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact
Irritation or Corrosion: Eyes: Causes eye irritation.

Skin: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.
Symptoms related to Toxicological Characteristics:
Eyes: Redness, pain, irritation.
Skin: No symptoms known or expected.
Ingestion: No symptoms known or expected.
Inhalation: No symptoms known or expected.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
50-21-5	Lactic acid	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: This product has no known ecotoxicological effects.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound cleaning, Not Regulated
DOT Hazard Class:
UN/NA Number:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
50-21-5	Lactic acid	No	No	No

CAS # Hazardous Components (Chemical Name)

50-21-5 Lactic acid

Other US EPA or State Lists

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

16. Other Information

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Additional Information About This Product: Company's Disclaimer: While IBA believes this statement set forth herein are accurate as of the date hereof, IBA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.

1. Product and Company Identification

Product Code: 162624
Product Name: 5 Star Base
Company Name: IBA
 27 Providence Rd.
 Millbury, MA 01527
Phone Number: 1 (508)865-6911
Emergency Contact: Chemtrec 1 (800)424-9300

2. Hazards Identification

Skin Corrosion/Irritation, Category 3
Aquatic Toxicity (Acute), Category 3
Aquatic Toxicity (Chronic), Category 3

GHS Signal Word: **Warning**

GHS Hazard Phrases: Causes mild skin irritation.
 Harmful to aquatic life.
 Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases: Keep out of reach of children.
 Read label before use.
 Do not get in eyes, on skin, or on clothing.
 Wear rubber gloves, chemical goggles, face shield and rubber apron.
 Wash hands thoroughly after handling.
 Avoid release to the environment.

GHS Response Phrases: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Get medical advice/attention.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.
 IF ON SKIN: Remove immediately all contaminated clothing and wash it before reuse. Wash with plenty of water for 15 minutes. If skin irritation occurs: Get medical advice/attention.

Medical and Transportation Emergencies contact Chemtrec 1-800-424-9300

GHS Storage and Disposal Phrases: Dispose of contents/container in accordance to local, state and federal regulations.
 Store locked up.

Hazard Rating System:

HEALTH	2
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:

Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7758-19-2	Sodium chlorite	0.61 - 0.67 %
1310-73-2	Sodium hydroxide	0.036 %

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Skin Contact: Flush thoroughly with fresh, tepid water for 15 minutes. Discard contaminated clothing and footwear or wash before reuse. If skin irritation occurs: Get medical advice/attention.

In Case of Eye Contact: Immediately flush eyes with large amounts of fresh, tepid water for at least 15 minutes. Hold eyelids open to ensure complete irrigation of eye and lid tissues. Tilt head to the side and irrigate the eye from the bridge of the nose to the outside of the face. Keep run-off from entering the other eye, mouth or ear. Washing eye within the first few seconds is essential to achieve maximum effectiveness. Get medical advice/attention.

In Case of Ingestion: Do not induce vomiting. Rinse mouth with fresh, Tepid water, than immediately drink 4-8 oz. or milk or water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep airways open. Keep head lower than hips to prevent aspiration into the lungs. Get medical attention immediately.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, CO2, sand, earth, water spray or regular foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Safety glasses, rubber or neoprene gloves. Wear chemical protective clothing.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb spill with inert material (e.g. dry sand or earth), and dispose of in accordance with applicable regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: For industrial or institutional use only.

Precautions To Be Taken in Storing: Store locked up. Keep from freezing.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7758-19-2	Sodium chlorite	No data.	No data.	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.

Respiratory Equipment (Specify Type): A respirator is not needed under normal and intended conditions of product use.

Eye Protection: Safety glasses

Protective Gloves: Rubber or neoprene gloves

Other Protective Clothing: Wear chemical protective clothing.

Engineering Controls (Ventilation etc.): Handle in accordance with good industrial hygiene and safety practice. In a well ventilated area. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Clear Colorless Liquid
Odor: No apparent odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: No data.

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.00 - 1.03

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: 100

pH: 11.5 - 12.5

Percent Volatile: No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Avoid handling conditions which may allow for leaks and spills of this material. Do not permit personnel to handle this product without proper training and/or protective equipment.

Incompatibility - Materials To Avoid: No data available.

Hazardous Decomposition Or Byproducts: No data available.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Inhalation, Eye contact, Skin contact
Irritation or Corrosion: Eyes: Causes eye irritation.
 Skin: Causes skin irritation.
 Ingestion: Can cause digestive trac pain.
 Inhalation: No known significant effects or critical hazards.
Symptoms related to Toxicological Characteristics:
 Eyes: Redness, pain, irritation.
 Skin: Redness, pain, irritation
 Ingestion: Corrosion, Abdominal pain
 Inhalation: No symptoms known or expected.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7758-19-2	Sodium chlorite	n.a.	3	n.a.	n.a.
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information: Harmful to aquatic life.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance to local, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Compound cleaning, Not Regulated

DOT Hazard Class:

UN/NA Number: **Packing Group:** III

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7758-19-2	Sodium chlorite	No	No	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

7758-19-2 Sodium chlorite	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1689; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
1310-73-2 Sodium hydroxide	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

16. Other Information

Revision Date: 01/20/2015

Additional Information About This Product: Company's Disclaimer: While IBA believes this statement set forth herein are accurate as of the date hereof, IBA makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation and verification.