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Dear Educator,

This file contains the Safety Data Sheets (SDS) for FOSS LIVING SYSTEMS, 3rd Edition as of July 24, 2017

Because kit contents can sometimes be replaced, we recommend searching our online portal of SDS for current sheets as you need them. To make that searching easier, we have provided a listing below of the items with SDS in this kit.

Portal: <http://www.schoolspecialty.com/sds>

| Part Number to Search | Item Description |
|------------------------------|--------------------------------|
| 077399 | Marking pen, permanent |
| 201-1217-0 | Thermometer |
| 250-0266 | Yeast, bakers, dry, 0.5 kg/bag |

Note: The part numbers to search for in the portal are often not the same part numbers used to order replacements. To order replacements, please visit www.deltaeducation.com/refillcenter

If you have any questions, please contact Customer Care at 800-258-1302 for assistance.



Office Products Group

MATERIAL SAFETY DATA SHEET

MSDS # 3000

Section One: Identification

Newell Rubbermaid, Inc. (Sanford L.P.)
2707 Butterfield Road
Oak Brook, IL 60523 USA
800-323-0749 or 630-481-2000

EMERGENCY MEDICAL NUMBER:

888-786-0972

Product Name: Sharpie Fine Point Marker, Sharpie Ultra Fine Point Marker, Sharpie Extra Fine Marker, Sharpie Chisel Tip Marker, Sharpie Twin Tip Marker, Super Sharpie Marker, Super Sharpie Twin Tip Marker, Sharpie Mini Fine Point Marker, Sharpie Micro Marker, Sharpie Grip Marker, Sharpie Retractable Fine Point Marker, Sharpie Magnum Marker, Sharpie King Size Marker, Sharpie Liquid Tip Marker.

Colors: All Colors

NewellRubbermaid, Inc (Sanford L.P.) is a member of The Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 and is labeled with the AP Non Toxic Seal. Products bearing the AP Approved Product Seal of The Art and Creative Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute Toxicology Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans, or to cause acute toxicity or chronic health problems.

Section Two: Hazard Identification

Not Hazardous under normal use conditions. Not for use on skin. Do not ingest. Contact with eyes may cause irritation.

Section Three: Composition

Dyes

Pigments

Solvent Mixture: Butanol (71-36-3), Propanol (71-23-8), Diacetone Alcohol (123-42-2), Ethanol (64-17-5)

Section Four: First Aid Measures

Inhalation: Remove source of irritation. If symptoms persist seek medical attention

Skin Contact: Wash with soap and water. If irritation persists seek medical attention.

Eye Contact: Rinse eyes with water, if irritation persists seek medical attention.

Ingestion: If symptoms occur seek medical attention.

Section Five: Fire Fighting Measures

Flash Point: N/A

Extinguishing Media: As appropriate for surrounding area.

Special Fire Fighting Measures: N/A

Hazardous combustion products: N/A

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Handling: Do not shake marker.

Storage: Keep cap on marker when not in use.

Section Eight: Exposure Controls and Personal Protection

Eye Protection: None under normal use conditions.

Clothing: None under normal use conditions.

Respirator: None under normal use conditions.

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Section Nine: Physical and Chemical Properties

Boiling Point: N/A
 Specific Gravity: N/A
 Vapor Pressure: N/A
 Solubility in Water: N/A
 Evaporation Rate: N/A
 Appearance/Odor: Marker/Alcohol (ink)

Section Ten: Stability and Reactivity

Stability: N/A
 Conditions to Avoid: Avoid exposure to heat, flame or other sources of ignition.
 Chemical Incompatibility: N/A
 Hazardous Polymerization: N/A

Section Eleven: Toxicological Information

See Section Two: Hazard Identification for any hazards

Section Twelve: Ecological Information

Not available

Section Thirteen: Disposal Considerations

Dispose of in accordance with all Federal, State, and Local Regulations.

Section Fourteen: Transport Information

DOT: Not available
 IATA: Not available
 IMO: Not available

Section Fifteen: Regulatory Information

United States: All components in this product are listed on or exempt from reporting under the Federal Toxic Substances Control Act (TSCA).

Section Sixteen: Other Information

| HMIS Code | |
|---------------------|-----|
| Health | N/A |
| Flammability | N/A |
| Reactivity | N/A |
| Personal Protection | N/A |

0=Minimal / 4 = Severe

NewellRubbermaid, Inc has been advised by Counsel that the OSHA Hazard Communication Standard and the Health Canada Workplace Hazardous Materials Information Standard do not apply to the Sanford Product described in this Material Safety Data Sheet. The reasons for the exemptions are contained in 29 CFR 1910.1200(b)(6)(ix) as amended Sept 14, 2009 per the Code of Federal Regulations and also Canadian Hazardous Products Act part 12 section (f) as amended June 1, 2009. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by nor is this MSDS meant to comply with all requirements of the hazard communication standards.

Hazard Communication Compliance Declaration

Newell-Rubbermaid (NWL) writing instruments comply with U.S. OSHA GHS Hazard Communication Standard of 29 CFR section 1910.1200 (OSHA HazCom 2012) by virtue of exemption as 'articles' and as 'consumer products' per 29 CFR section 1910.1200(b)(6)(v) and (ix). Therefore, GHS Safety Data Sheets are not required for our writing instruments.

An 'article' is defined in Section 1910.1200(c) "as a manufactured item other than a fluid or particle:

- Which is formed to a specific shape or design during manufacture;
- Which has end use function(s) dependent in whole or in part on its shape or design during end use; and
- Which, under normal conditions of use, does not release other than very small (minute or trace) amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees."

The 'consumer product' exemption in 29 C.F.R. section 1910.1200(b)(6)(ix) states that:

- Any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, where the employer can show that it is used in the workplace for the purpose intended by the chemical manufacturer or importer of the product, and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the purpose intended.

OSHA has consistently taken the position, in various rulemaking documents and interpretation letters, "most office products (such as pens, pencils, adhesive tape) to be exempt under the provisions of the rule, either as articles or as consumer products." Markers also fall into these exempted categories. This position is cited currently on [OSHA's website](#) in a letter from OSHA Assistant Secretary John A. Pendergrass to U.S. Congressman Jim Bunning. These examples are cited again in OSHA's FAQs on the [Hazard Communication Standard](#) which further reinforces that Newell-Rubbermaid writing products are exempt from Hazard Communication requirements, specifically GHS Safety Data Sheet documentation.

A non-exhaustive list is provided below of Newell-Rubbermaid writing instruments that qualify as 'articles' and 'consumer products' that are exempt from GHS Safety Data Sheet requirements:

- Prismacolor Premier Colored Pencils and Sharpeners
- Prismacolor Nupastels and Art Stix and Erasers
- Sharpie Permanent Markers
- Sharpie Pens
- Sharpie Highlighters (Clearview, Accent, etc)
- Paper Mate Pens (InkJoy, FlexGrip, Replay, etc)
- Paper Mate Mechanical Pencils
- Paper Mate Flair Pens
- Paper Mate Pearl Erasers
- Paper Mate Replay Premium Erasable Pens
- Expo Dry Erase Markers
- Expo Whiteboard Cleaner Wipes
- Expo Learning Boards
- Liquid Paper Correction Pens
- Liquid Paper Dryline Correction Tape
- Parker Fountain Pens
- Waterman Fountain Pens
- Rotring Tikky Ballpoint Pens
- Woodcase Pencils (Mongol, Mirado, etc)
- uni-ball pens

Safety Data Sheet
Isoamyl Benzoate for Synthesis

SDS Revision Date:

12/09/2014



1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|-------------------------|--------------------------------|
| Product Identity | Isoamyl Benzoate for Synthesis |
| Alternate Names | Isoamyl Benzoate for Synthesis |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|---------------------------|---------------------------|
| Intended use | Chemical for synthesis |
| Application Method | See Technical Data Sheet. |

1.3. Details of the supplier of the safety data sheet

| | |
|---------------------|---|
| Company Name | Thermco Products, Inc. 10 Millpond Drive, Unit #10 Lafayette, NJ 07848 |
|---------------------|---|

Emergency

| | |
|---|--------------|
| Customer Service: Thermco Products, Inc. | 973.300.9100 |
|---|--------------|

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Combustible Liquid;H227 Combustible Liquid.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.
H227 Combustible liquid.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P280 Wear protective gloves / eye protection / face protection.

[Response]:

No GHS response statements

[Storage]:

P403+235 Store in a well ventilated place. Keep cool.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

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3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|--|----------|--------------------|-------|
| ISOPENTYL BENZOATE CAS Number: 0000094-46-2 | 100 | Not classified | [1] |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

| | |
|-------------------|---|
| General | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Inhalation | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| Eyes | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. |
| Skin | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. |
| Ingestion | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Overview | No specific symptom data available. See section 2 for further details. |
|-----------------|---|

5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

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Hazardous decomposition: No hazardous decomposition data available.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.

5.3. Advice for fire-fighters

Special risks:

Combustible. Vapors heavier than air.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapors possible in the event of fire.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.
Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).
Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Do not inhale vapors/aerosols. Ensure supply of fresh air in enclosed rooms.
Take up with liquid-absorbent material (e.g. Chemizorb). Forward for disposal. Clean up affected area.

7. Handling and storage

7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: Strong oxidizing agents

Tightly closed. At +15C to +25C.

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See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

| CAS No. | Ingredient | Source | Value |
|--------------|--------------------|----------|----------------------|
| 0000094-46-2 | ISOPENTYL BENZOATE | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| | | Supplier | No Established Limit |

Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|--------------|--------------------|--------|--|
| 0000094-46-2 | ISOPENTYL BENZOATE | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Protective safety glasses required

Skin

Butyl rubber gloves
 Layer thickness: 0.7 mm
 Breakthrough time: >240 min

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

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9. Physical and chemical properties

| | |
|--|--|
| Appearance | Colorless Liquid |
| Odor | Almost Odorless |
| Odor threshold | Not Measured |
| pH | NA |
| Melting point / freezing point | NA |
| Initial boiling point and boiling range | 260 C |
| Flash Point | 89 C |
| Evaporation rate (Ether = 1) | NA |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: NA Upper Explosive Limit: NA |
| Vapor pressure (Pa) | NA |
| Vapor Density | NA |
| Density | 0.99 g/cm ³ (@20C) |
| Solubility in Water | Insoluble |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Auto-ignition temperature | NA |
| Decomposition temperature | NA |
| Viscosity (cSt) | NA |
| VOC % | NA |
| Log Pow | 4.15 (experimental) (Lit.) |

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Forms explosive mixtures with air on intense heating.

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10.5. Incompatible materials

Strong Oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

11. Toxicological information

Acute toxicity

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr | Inhalation Gas LD50, ppm |
|--------------------------------|-----------------------------|-------------------|---------------------------------|-------------------------------------|--------------------------|
| ISOPENTYL BENZOATE - (94-46-2) | 6330.00, Rat - Category: NA | No data available | No data available | No data available | No data available |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification | Category | Hazard Description |
|-------------------------------|----------|--------------------|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | --- | Not Applicable |
| Serious eye damage/irritation | --- | Not Applicable |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

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12. Ecological information

12.1. Toxicity

Do not allow product to enter water, wastewater or soil! See Section 3 for chemical specific data.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--------------------------------|-----------------------|----------------------------|-------------------|
| ISOPENTYL BENZOATE - (94-46-2) | Not Available | Not Available | Not Available |

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

An appreciable bioaccumulation potential is to be expected ($\log P_{o/w} > 3$)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|----------------------------------|--|---|---------------------------|
| 14.1. UN number | Not Applicable | Not Regulated | Not Regulated |
| 14.2. UN proper shipping name | Not Regulated | Not Regulated | Not Regulated |
| 14.3. Transport hazard class(es) | DOT Hazard Class: Not Applicable DOT Label: --- | IMDG: Not Applicable Sub Class: Not Applicable | Air Class: Not Applicable |
| 14.4. Packing group | Not Applicable | Not Applicable | Not Applicable |

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14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification B3

US EPA Tier II Hazards

Fire: Yes

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): No

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:
(No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :
(No Product Ingredients Listed)

Penn RTK Substances (>1%) :
(No Product Ingredients Listed)

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16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is: not applicable

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: This information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Document

SAFETY DATA SHEET

| SECTION 1: Identification | | | |
|--|---------------------------------------|---|---------------------------------|
| Product Name: SAF Instant Yeast Red Label Product codes: 15909, 31105, 31150, 31200, 41305 | | Manufacturer: SAFMEX Km. 57.5 Carretera Toluca, Mexico 414-615-4085 Emergency Phone: 800-424-9300 | |
| SAF Instant Yeast (With Ascorbic Acid) is dry, active yeast produced from strains of <i>Saccharomyces cerevisiae</i> used as a food ingredient. | | | |
| SECTION 2: Hazard(s) Identification | | | |
| Health Hazard | | | |
| Irritant – Direct Eye Contact | | | |
| Sensitizing Agent – Inhalation | | | |
| No known hazards | | | |
| SECTION 3: Composition / Information on Ingredients | | | |
| Ingredients | CAS# | % by Weight | |
| Yeast (<i>S. cerevisiae</i>) | 8013-01-2 | >98% | |
| Sorbitan Monostearate | 822-16-2 | 1% | |
| Ascorbic Acid | 50-81-7 | < 1% | |
| SECTION 4: First Aid Measures | | | |
| Eye Contact: Flush eyes with clear water for 15 minutes | | | |
| Inhalation: Remove person to area of fresh air. | | | |
| SECTION 5: Fire-Fighting Measures | | | |
| Flash Point | Solid | Extinguishing Material | CO ₂ , Water or Foam |
| Flammable Limits | NA | Hazard. Combustion Prods | None |
| Explosion - Mechanical | None | Explosion - Static | High Dust Levels |
| Firefighting Hazards | Material may become slippery when wet | | |
| SECTION 6: Accidental Release Measures | | | |
| Spilled instant, active yeast powder can be cleaned up by vacuum or sweeping and disposed of in landfill. Wet cleaning can used to remove fine dust, with liquid waste to sewer. | | | |
| SECTION 7: Handling and Storage | | | |
| Handling: Avoid breathing dust. Avoid contact with skin and clothing. Keep out of eyes | | | |
| Storage: Store in original packaging or in clean covered container. Store in cool, dry conditions. Do not leave open bags exposed. | | | |
| SECTION 8: Exposure Controls / Personal Protection | | | |
| Respiratory Protection: Wear general purpose nuisance dust mask when handling | | | |
| Eye Protection: Wear safety goggles to avoid eye contact | | | |
| Clothing: No special requirements related to safety of product | | | |
| Engineering Controls: Dust collection equipment if excessive dust in area | | | |

SAFETY DATA SHEET

| SECTION 9: Physical and Chemical Properties | | | |
|--|--|---------------------------|----------------|
| Appearance | Light Tan Powder | Explosion Limits | Not Applicable |
| Vapor Pressure | Not Applicable | Vapor Density | Not Applicable |
| pH | 4.5-6.5 (5% Solution) | Relative Density | 0.35 g/ ml |
| Melting Point | Not Applicable | Freezing Point | Not Applicable |
| Solubility | Slightly | Boiling Point | Not Applicable |
| Flash Point | Not Applicable | Evaporation Rate | Not Applicable |
| Odor | Yeast | Viscosity | Not Applicable |
| Partition Coefficient | Not Applicable | Auto-ignition Temp | Not Applicable |
| Decomposition Temp. | Not Applicable | | |
| SECTION 10: Stability and Reactivity | | | |
| Reactivity | Comines with sugar& water to produce CO ₂ | | |
| Chemical Stability | Stable under normal conditions of use | | |
| Other | None | | |
| SECTION 11: Toxicological Information | | | |
| Material is Generally Recognized as Safe (21 CFR) | | | |
| Long Term Exposure | No effects known | | |
| Short Term Exposure | No effects known | | |
| Sensitization | Possible sensitizing agent due to high protein content | | |
| Allergen | Not a know allergen | | |
| Carcinogenicity | Not Listed as carcinogenic by NTP or IARC | | |
| Reproductive Toxicity | None | | |
| SECTION 12: Ecological Information (non-mandatory) | | | |
| No environmental effect | | | |
| SECTION 13: Disposal Considerations (non-mandatory) | | | |
| Product can be disposed of in landfill or to sanitary sewer discharge in accordance with local regulations | | | |
| SECTION 14: Transport Information (non-mandatory) | | | |
| Shipping Classification | Not Hazardous | | |
| Refrigeration | Not Required | | |
| SECTION 15 Regulatory Information (non-mandatory) | | | |
| Production is regulated by the US FDA. | | | |
| SECTION 16: Other Information | | | |
| Updated: January 7, 2016 | | | |

LESAFFRE YEAST CORPORATION

SAF Instant® Yeast– Red Label

TECHNICAL DATA SHEET

| | | | | | |
|---|---|------------------------------|---------------|--------------|-------------------|
| PRODUCT DESCRIPTION: SAF-Instant® Yeast is a bakers dry yeast (<i>Saccharomyces cerevisiae</i>) vacuum-packed in foil pouches. Instant yeast derives its name from its ability to rapidly rehydrate in water or when added directly into a dough. Specifically formulated for: Bagels, Crackers, Croissants, Donuts, English Muffins, Flat Breads, Hearth Breads, Pan Breads, Pizza Crusts Although its functional properties are improved over active dry yeast, it falls under that Standard of Identity. | | | | | |
| REGULATORY: All materials shall be of edible grade, clean, sound, wholesome and free from extraneous matter. Product shall be prepared following Good Manufacturing Practices and shall comply with the Federal Food, Drug, and Cosmetic Act of 1938, as amended and with regulations issued pursuant to this act. | | | | | |
| INGREDIENT STATEMENT: Yeast, sorbitan monostearate, ascorbic acid | | | | | |
| ANALYTICAL STANDARDS: | | | | | |
| Parameter | Specification | Test Method Reference | | | |
| Dry Matter | 94-96 % | AOAC 27.8.03 961.06 | | | |
| Gassing Power | 118-142 | AACC 89-01 | | | |
| MICROBIOLOGICAL STANDARDS: | | | | | |
| Parameter | Specification | Test Method Reference | | | |
| Salmonella | Neg / Class III | BAM CH 5 | | | |
| Coliform | < 100 CFU /g | BAM CH 4 | | | |
| E. Coli | <10 CFU / g | BAM CH 4 | | | |
| PACKAGING INFORMATION: | | | | | |
| Item Number | Units per Case | Case Dimensions | | | Cubic Feet |
| | | Height | Length | Width | |
| 31105 | 10kg | 12.5" | 11.25" | 7.75" | 0.63 |
| 31150 | 50 lb | 20 ¼" | 15 ½" | 7 ¼" | 1.3 |
| 15909 | 20 – 1 lb | 9 13/16" | 13 ½" | 7 5/8" | 0.6 |
| 41305 | 64/113g | 4.5" | 14.375" | 12" | 0.45 |
| 31200 | 20/ 500g | 10.5" | 13.5" | 7.75" | 0.63 |
| PALLET INFORMATION: | | | | | |
| Item Number | Pallet Configuration | Pallet Dimensions | | | Cubic Feet |
| | | Height | Length | Width | |
| 31105 | 99 Cases (4 layers of 12, 3 layers of 17) | 72" | 48" | 40" | 80 |
| 31150 | 45 Cases (5 layers of 6, 3 layers of 5) | 67" | 48" | 40" | 74 |
| 15909 | 105 Cases (7 layers of 15) | 59" | 48" | 40" | 65 |
| 41305 | 143 Cases (11 layers of 13) | 64" | 48" | 40" | 71 |
| 31200 | 105 Cases (7 layers of 15) | 58.5" | 51.0" | 42" | 72.5 |

| |
|---|
| SHELF LIFE & STORAGE: |
| SAF Instant [®] Yeast has a Shelf life of 24 Months if stored at < 80° F |
| KOSHER: |
| SAF Instant [®] Yeast is certified as Kosher-Pareve by KOF-K |
| LOT CODING: |
| Lot coding on the product cases consists of 2 lines of information. The first line indicates date of production and the production sequence. The second line indicates the best used by date and the facilities internal coding which is not part of the product's lot code. Below is a detailed explanation of this. First line: P 0115 LOT 12345/2 indicates the lot was produced in January 2015 and the 5 digit production sequence "/2" indicates number of production/fermentations in a blend. E 01 15 6011IB0201 0115 indicates the "Best Used By" date of January 2015. The alphanumeric code is the producing facility's internal product code |
| GMO STATEMENT |
| Certified GMO Free by Green Star. Non-GMO following EEC regulations. Contains no GMO enzymes, have not been solvent-extracted, synthetically preserved or irradiated. Contain no artificial flavors or colors. There was no sewer sludge, petrochemical substrate, or sulfite waste liquor involved with any step of production. |
| BSE: |
| No animal products used in manufacturing process or raw materials |
| PRESERVATIVES: |
| No preservatives present in product |
| VEGETARIAN STATUS: |
| Acceptable for "Vegan" diets |
| GLUTEN: |
| Gluten Free |
| COUNTRY OF ORIGIN: |
| Mexico |
| GMPs: |
| Food GMPs |
| FOOD DEFENSE: |
| Facilities are registered with the FDA and are in compliance with FDA Guidelines relating to Food Security |
| USAGE: |
| Varies with application or intended use. As a starting point, replace active dry yeast with ¾ the amount of SAF-Instant [®] Yeast or 25 percent less for equivalent fermenting power. SAF-Instant [®] Yeast will replace compressed yeast on an average at 33-40 percent of compressed yeast levels. When converting from compressed yeast, extra water is required to be added to the dough, approximately double the weight of the yeast. |

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The information herein is true and accurate to the best of our knowledge. However, this data sheet is not to be considered as guarantee expressed or implied, or as a condition of sale of this product

7475 West Main St Milwaukee, WI 53214

LESAFFRE YEAST CORPORATION

NUTRIENT INFORMATION

| | |
|------------------|---------------------------------------|
| PRODUCT NAME | SAF Instant® – Red |
| PRODUCT CODE (S) | 15909, 31105, 31150, 41305 |
| COMPANY | Lesaffre Yeast Corporation |
| ADDRESS | 7475 West Main St Milwaukee, WI 53214 |

TYPICAL ANALYSIS

Per 100g “As Is”

| | | | | | |
|---------------|-----|----------|-------------------|------|----|
| Calories | 390 | kcal | Fat | 6 | g |
| Moisture | 5 | g | Saturated | 2 | g |
| Protein | 50 | g | Unsaturated | 4 | g |
| Ash | 6 | g | Monounsaturated | 4 | g |
| Carbohydrates | 33 | g | Polyunsaturated | 0 | g |
| Complex | 33 | g | Trans Fatty Acids | 0 | g |
| Sugars | 0 | g | Cholesterol | 0 | mg |
| Dietary Fiber | 27 | g | Iron | 5 | mg |
| Soluble | | g | Calcium | 45 | mg |
| Insoluble | | g | Sodium | 75 | mg |
| Vitamin A | 0 | ug RE | Potassium | 1700 | mg |
| Vitamin C | 300 | mg | Phosphorous | 2400 | mg |
| Thiamin | 12 | mg | | | |
| Niacin | 50 | mg NE | | | |
| Riboflavin | 5 | mg | | | |

Ingredient Statement: Yeast, sorbitan monostearate, ascorbic acid

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LESAFFRE YEAST CORPORATION

ALLERGEN & SENSITIVE COMPONENTS

| PRODUCT NAME | SAF Instant® Red Label | | | |
|---|--|----|----------------------------|----|
| PRODUCT CODES | 15909, 31105, 31150, 41305, 41822 | | | |
| ALLERGEN & SENSITIVE COMPONENT | PRESENT IN PROD | | PRESENT ON SAME LINE | |
| | YES | NO | YES | NO |
| MILK PRODUCTS (butter, casein, cheese, whey, nougat, malted milk, sour cream, yogurt, etc.) | | X | | X |
| EGG PRODUCTS (mayonnaise, meringue, ovalbumin, etc.) | | X | | X |
| FISH any type | | X | | X |
| SHELL FISH (crustaceans, mollusks, shrimp, crab, lobster, oyster, clam, scallop, crayfish, etc.) | | X | | X |
| TREE NUTS (almond, cashew, hazelnut, macadamia, pecan, pine, pistachio, walnut, etc.) | | X | | X |
| WHEAT PRODUCTS (bran, bread crumbs, cracker meal, farina, graham flour, wheat germ, gluten etc.) | | X | | X |
| PEANUTS | | X | | X |
| SOYBEAN PRODUCTS (tofu, miso, soy-derived vegetable protein, etc.) | | X | | X |
| BARLEY PRODUCTS | | X | | X |
| BHA, BHT | | X | | X |
| CELERY (root, leaves, stalk) | | X | | X |
| CHOCOLATE PRODUCTS | | X | | X |
| FD&C COLORS (Yellow #5, etc.) | | X | | X |
| HYDROLYZED ANIMAL PROTEIN | | X | | X |
| HYDROLYZED PLANT PROTEIN | | X | | X |
| 3-MCPD (MONOCHLOROPROPYLDIOL) | | X | | X |
| MEAT & MEAT DERIVATIVES (beef, pork) | | X | | X |
| MONOSODIUM GLUTAMATE | | X | | X |
| OAT PRODUCTS | | X | | X |
| RYE PRODUCTS | | X | | X |
| SEEDS (cottonseed, poppy, sesame, sunflower, mustard, etc.) | | X | | X |
| SULFITES | | X | | X |

There are no allergens present in our yeast manufacturing facilities. Allergens present in our dough conditioner blending operation are kept in separate buildings.

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