

AN 4532
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April 24, 1990

Tom Ulliman
CL-OTM-3

SUBJECT: GEON 82151, TRANS 001 - FDA STATUS

Geon 82151, Trans 001 is composed of ingredients which meet the current requirements of the FDA for use in contact with food types I, II, IVB (except liquid milk) and VIII as described in Table 1 of 176.170, at temperatures not to exceed room temperature and at a thickness not to exceed 0.005 inch. The ingredients in Geon 82151, Trans 001 are listed on an appropriate regulation in 21CFR, or are generally recognized as safe (GRAS), or prior sanctioned for such use.

The end food contact article must meet the extractive limitation of 178.3790.

The use of Diisononyl phthalate restricts the use of Geon 82151, Trans 001 to the above.



W. C. Bachtel

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(d)(1)(i))

Food and Drug Administration, HHS

§ 176.170

temperature characterizing the conditions of its intended use as determined from Tables 1 and 2 of this paragraph, shall yield net chloroform-soluble extractives (corrected for wax, petrolatum, mineral oil and zinc extractives as zinc oleate) not to exceed 0.5 milligram per square inch of food-contact surface as determined by the methods described in paragraph (d) of this section.

TABLE 1—TYPES OF RAW AND PROCESSED FOODS

- I. Nonacid, aqueous products; may contain salt or sugar or both (pH above 5.0).
- II. Acid, aqueous products; may contain salt or sugar or both, and including oil-in-water emulsions of low- or high-fat content.
- III. Aqueous, acid or nonacid products containing free oil or fat; may contain salt, and including water-in-oil emulsions of low- or high-fat content.

- IV. Dairy products and modifications:
 - A. Water-in-oil emulsions, high- or low-fat.
 - B. Oil-in-water emulsions, high- or low-fat.
- V. Low-moisture fats and oil.
- VI. Beverages:
 - A. Containing up to 8 percent of alcohol.
 - B. Nonalcoholic.
 - C. Containing more than 8 percent alcohol.
- VII. Bakery products other than those included under Types VIII or IX of this table:
 - A. Moist bakery products with surface containing free fat or oil.
 - B. Moist bakery products with surface containing no free fat or oil.
- VIII. Dry solids with the surface containing no free fat or oil (no end test required).
- IX. Dry solids with the surface containing free fat or oil.

TABLE 2—TEST PROCEDURES WITH TIME TEMPERATURE CONDITIONS FOR DETERMINING AMOUNT OF EXTRACTIVES FROM THE FOOD-CONTACT SURFACE OF UNCOATED OR COATED PAPER AND PAPERBOARD, USING SOLVENTS SIMULATING TYPES OF FOODS AND BEVERAGES

Condition of use	Types of food (see Table 1)	Food-simulating solvents			
		Water ¹	Heptane ^{1, 2}	8 percent alcohol ²	50 percent alcohol ²
A. High temperature heat-sterilized (e.g., over 212° F).	I, IV-B, VII-B III	250° F, 2 hr			
	IV-A, VII-A	do	150° F, 2 hr		
	II, VII-B	212° F, 30 min.	120° F, 30 min.		
B. Boiling water sterilized	III, VII-A	do			
	II, IV-B, VII-B	Fill boiling, cool to 100° F.			
	III, IV-A, VII-A	do	120° F, 15 min.		
C. Hot filled or pasteurized above 150° F.	V, IX		do		
	II, IV-B, VI-B, VII-B	150° F, 2 hr	100° F, 30 min.		
	III, IV-A, VII-A	do			
D. Hot filled or pasteurized below 150° F.	V, IX		do		
	VI-A			150° F, 2 hr	
	VI-C				150° F, 2 hr.
E. Room temperature filled and stored (no thermal treatment in the container).	I, II, IV-B, VI-B, VII-B	120° F, 24 hr	70° F, 30 min.		
	III, IV-A, VII-A	do			
	V, IX		do		
F. Refrigerated storage (no thermal treatment in the container).	VI-A			120° F, 24 hr	
	VI-C				120° F, 24 hr
	III, IV-A, VII-A	70° F, 48 hr	70° F, 30 min.		
	I, II, IV-B, VI-B, VII-B	do			
	VI-A			70° F, 48 hr	
	VI-C				70° F, 48 hr

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GEON 82151 TRANS PL 001

OSHA WARNING LABEL: A

COMMODITY NO.: 82151 000 0018

LOC: 12 DEPT: 5697

ISSUE: 002

SBC NBR: 1301

EFFECTIVE DATE: 12/07/89

LAB REF: 150-152-100-3

DELETE FLAG: NO

CMPR: E. RABINOVITCH -1367

BASED ON: 82151 TRANS PL 001, ISSUE 1, 7/13/89

APPLICATION: RIGID PROFILE EXTRUSION - FOOD GRADE

PARTS	INGREDIENTS	SEQ	LOC	PERCENT
100.00000	961 000023 103EP F-76	120	12	83.292
10.00000	942 711137 METABLEN C-201	210		8.329
2.00000	941 00K006 PARALOID K-120N	220		1.666
2.00000	912 711158 ADVASTAB TM-2080	310		1.666
5.00000	931 709176 DINP <i>side - 1000 phtalate</i>	320		4.165
.50000	943 711159 LOXIOL G-20 <i>side - 1000 phtalate</i>	510		.416
.20000	943 710867 AC-316A POLYETHYLENE	520	<i>Medigra 2.2</i>	.167
① .18000	961 000111 85367 000 4302	610		.150
② .18000	961 000340 85367-000-4222	620		.150
120.06000		TOTAL		100.000

TYPE SAMPLE:

COLOR: 2

MATCHED TO:

ISSUED: TO REPLACE 710182 WITH 711137

MARKETING APPROVAL:

MISC CMNT:

① 110X377 - 94.3552
Epoxid 7.5 - 3.0768
3272 - Ultramarine Blue - 5.128

② - 110X334 92.0
Epoxid 7.5 3.0
Ultramarine Blue 5.0

20847003 15.370
TM 2080 - methyl blue 71178.2010 - att'g. not needed. 0.005"

100
 100
 100
 100

20847003

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ROUTE TO: BATH COMPUTER ROOM

GEON VINYL TECHNICAL DOCUMENT

71158
912

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MATERIAL SAFETY DATA SHEET

ADVASTAB® TM-2080
Heat Stabilizer

Morton Thioko Inc.
Ventron Division
2000 West Street
Cincinnati, Ohio 45215

Emergency Phone No. 513-733-2218
General Information 513-733-2100
MSDS Reference No. 6220
Rev. Date 05/26/89 Rev. No. 3

I. PRODUCT IDENTIFICATION

Product name: ADVASTAB® TM-2080 Heat Stabilizer
Chemical name: Mixture
Chemical family: Alkyltin mercaptoacid ester

II. HAZARDOUS CONSTITUENTS

CAS No.	Chemical	Hazard Data
57583-35-4	Dimethyltin bis(2-ethylhexylthioglycolate)	TLV/PEL 0.1 mg/m ³ (skin)
34-3	Methyltin tris(2-ethylhexylthioglycolate)	TLV/PEL 0.1 mg/m ³ (skin)

III. PHYSICAL DATA

Boiling point:	>430°F (decom.)	Melting point:	Not applicable
Vapor pressure:	<0.5 mm @ 25°C	Vapor density (air=1):	4.5
H ₂ O solubility:	Insoluble	% volatiles by wt.:	3 @ 110°C
Viscosity:	.50 cs @ 25°C	Specific gravity:	1.17 @ 25°C

Appear. & odor: Clear colorless liquid with slight mercaptan odor

IV. FIRE AND EXPLOSION HAZARD DATA

Flash point (method used): 260°F (Setaflash - ASTM D3278-78)
Flammable limits in air: Unknown
Extinguishing media: Carbon dioxide, water fog or foam
Fire fighting procedures: Self-contained breathing apparatus with full facepiece in positive pressure mode and impervious suit
Fire & explosion hazards: On burning, may produce irritating or toxic vapors including hydrocarbons, organotins and oxides of carbon and sulfur.

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ADVASTAB® TM-2080 Heat Stabilizer
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Morton Thiokol, Inc.
Ventron Division
513-733-2100

V. HEALTH HAZARD INFORMATION

Health Hazard Data Based on animal studies of a similar product. No human exposure data.

TLV: Tin (skin) 0.1 mg/m³, STEL 0.2 mg/m³

PEL: Tin (skin) 0.1 mg/m³

LD50: oral, 1100 mg/kg (rat)

dermal, 2150 male and 1000 female mg/kg (rabbit)

LC50: 240 mg/l for 1 hour; aerosol (rat)

Skin Irritation Index (rabbit): 2.36 (not primary irritant)

Eye Irritation Index (rabbit): Not an eye irritant

Effects of Overexposure

Inhalation: May cause headache, nausea and/or irritation of throat (coughing) or skin (itching).
Skin contact: May cause reddening of the skin (erythema), swelling (edema) and irritation (dermatitis). May cause shaking, loss of coordination, ataxia and hypersensitivity.
Eye contact: Not an irritant (see above) but good hygiene dictates avoiding any eye contact.
Ingestion: May cause depression, excessive salivation, diarrhea, eye and nasal discharge.
Chronic: No known human exposure data. The no-toxic effect level in the diet of rats = 100 ppm in sub-chronic (90 day) toxicity studies. Kidney damage appeared at 300 ppm.

Emergency First Aid Procedures

Eyes: Flush with water for 15 minutes. Obtain medical attention.
Skin: Wash immediately with soap and water. Remove contaminated clothing. Obtain medical attention if contact was prolonged or extensive.
Inhalation: Remove to fresh air. Obtain medical attention if any irritation develops.
Ingestion: Obtain medical attention immediately.

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Morton Thiokol, Inc.
Ventron Division
513-733-2100

VI. REACTIVITY DATA

Stability of compound: Stable
Chemical incompatibility: Compatible with other stable compounds.
Decomposition products: Hydrocarbons, organotins and oxides of carbon and sulfur may be produced when burned.
Hazardous polymerization: Will not occur.

VII. SPILL OR LEAK PROCEDURES

If material is spilled: Spills may be removed with any absorbent: sand, sponge, cloth, paper, etc. Use detergent with water for final cleanup. Wear prescribed protective equipment (see section VIII) to prevent vapor inhalation or skin contact.

Waste disposal method: Place absorbed material in an appropriate, closed container for disposal of in accordance with local, state and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

Ventilation requirements: Adequate to prevent vapor accumulation & keep below TLV/PEL.

Equipment

Respiratory: If vapors are irritating, wear NIOSH-approved cartridge respirator with organic vapor cartridges. Where large vapor concentrations are suspected, wear NIOSH-approved air-supplied breathing equipment.

Eye: Safety goggles (and/or safety glasses) and face shield

Gloves: Rubberized gloves

Other: Impervious suit or rubber apron

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FASTAB® TM-2080 Heat Stabilizer
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Morton Thiokol, Inc.
Ventron Division
513-733-2100

IX. SPECIAL PRECAUTIONS

Do not take internally.

Store in cool, dry location.

For industrial use only

Keep away from children.

Remove contaminated clothing immediately and launder before reuse.

Contaminated shoes and gloves should be destroyed.

For additional information contact: Health, Safety & Environmental
Department, (513) 733-2100.

"To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS."

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