

INTER-OFFICE MEMO, TENNECO CHEMICALS, INC.

To W.C. Champion

At Burlington

DATE January 7, 1974

FROM F.W. Kanzler

At Burlington

COPY TO J.F. Bubnis

SUBJECT Raw Material Storage Requirements

H. B. Carr

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Reference: Memo from H.B. Carr to
Route List, dated 11/29/73,
Raw Material Review Meeting

As stated in the referenced memo, Purchasing advised Manufacturing to maintain a three-months' inventory of raw materials, where this would be feasible and appropriate. Prior to implementing this, Quality Control agreed to review raw material storage requirements for Manufacturing.

Attached is a listing of the storage requirements.

Fred W. Kautz

F.W. Kanzler

Attachment.

FWK/jst

RAW MATERIAL STORAGE REQUIREMENTS

<u>Materials</u>	<u>Storage Temperature Range</u>	<u>Precautions</u>	<u>Other Factors (air, humidity, light)</u>	<u>Storage Time</u>
Tributyl Phosphate	5°C-40°C (41°-104°F)	high temperatures cause hazardous vapor pressure build-up	none	6 months
Lauroyl Peroxide	ambient	peroxide safety rules	none	6 months
Colloids 581-B	5°C-40°C (41°-104°F)	gelatinous and potential loss of properties if temperature <2°C (<36°F), slow re-thaw, no loss of properties and efficiency, high temperature (>40°C, 104°F) will accelerate phase separation	H ₂ O changes phase separation properties	6 months good reagitation imperative
Trisodium Phosphate	ambient	Polyethylene-lined bag required, bottom layer on pallet will cake	low humidity required, decomposes in moist air	6 months if lining intact
Sodium Carbonate	ambient	Polyethylene-lined bag required, bottom layer on pallet will cake	low humidity required, decomposes in moist air	6 months if lining intact
Tween 20	22°C-40°C (72°-104°F) (25°C 400 cps)	50°C critical upper limit, >50°C moisture absorption extremely rapid unless continuously blanketed with nitrogen	3% H ₂ O content, warm Tween 20 will pick up water	6 months
T.A.I.C.	23°C-40°C (73°-104°F)	if frozen, slow thawing below 40°C (104°F)	none	6 months
Methocel	ambient to 65°C (149°F)	>65°C (>149°F) degradation	hygroscopic	5-6 months <u>or less</u>
Sodium Bicarbonate	ambient	Polyethylene-lined bag required, bottom layer will cake	low humidity required, decomposes in moist air	6 months if lining intact

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<u>Raw Materials</u>	<u>Storage Temperature Range</u>	<u>Precautions</u>	<u>Other Factors (air, humidity, light)</u>	<u>Storage Time</u>
E Mated Hydroxytoluene (food grade)	22°C-40°C (72°-104°F)	high temperature (140°C, 104°F) will cake; avoid exposure of opened bag to sublight	light will turn yellow to brown	6 months
G.E. Antifoam AF-60	5°C-40°C (41°-104°F)	high temperature (140°C) will cause vapor pressure build-up, <u>must not</u> be allowed to freeze; <u>will not</u> come back to original properties on thawing	none	6 months
Styrene	≤70°F	maintain 70 ppm-100 ppm t-Butyl Catechol (check inhibitor level once per month)	high temperatures will cause polymerization	6 months
Gelatin	10°C-40°C (50°-104°F)	shipped with 8.5-10% H ₂ O, therefore, freezing temperatures must be avoided	high humidity causes lumps	3-6 months
Ninol 1281	5°C-40°C (41°-104°F)	none	zinc will be rapidly attacked by the Ninol	6 months
Epoxol 9-5	(Vendor's information pending)			
Silicone Fluid L-522	ambient	none	water causes hydrolysis of the molecule	6 months
Tridecanol	ambient	high temperature (140°C), will form "color bodies", vapor pressure build-up	long exposure to air will lead to discoloration	up to 2 years if stored properly, tight drums
Polyvinyl Alcohol	15°C-40°C (59°-104°F)	none	if humidity high, pick up of moisture; if wet, harder to dissolve	6 months

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<u>Raw Materials</u>	<u>Storage Temperature Range</u>	<u>Precautions</u>	<u>Other Factors (air, humidity, light)</u>	<u>Storage Time</u>
Sodium Bisulfite	5°C-40°C (41°-104°F)	60% relative humidity max allowable, if >60% loss of sulfur dioxide 2-5%	light no effect	6 months
Ammonium Persulfate	<40°C (<104°F) max	keep away from moisture, do not ex- pose to metals over prolonged period of time	water and metals may cause decomposition, low humidity required	6 months
2-EHP	-2°C (28°F) max	if >18°C (65°F), decomposition will occur	water will reduce activity	6 months

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F.W. Kanzler
12/26/73