SAFETY DATA SHEET



RENPIM® 6486 ISOCYANATE US

Section 1. Identification

GHS product identifier:Product code:Other means of identification :	RENPIM® 6486 ISOCYANATE US 00066914 Not available.
Product type :	Liquid.
Material uses :	Isocyanate component for tooling systems
Supplier's details :	Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387
	Non-Emergency phone: (800) 257-5547
e-mail address of person : responsible for this SDS	MSDS@huntsman.com
Emergency telephone : number (24h/7day)	Chemtrec: (800) 424-9300 or (703) 527-3887

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 73.9% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 73.9%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.



1/13

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Section 2. Hazards identification

Precautionary statements	:	Wear protective gloves. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not		None known

result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
hexamethylene-diisocyanate, homopolymer	13 - 30	28182-81-2
Any concentration chown on a reneral is to protect confidentiality aris due		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed Potential acute health effects

Section 4. First aid measures

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u> Eye contact	/symptoms : No specific data.
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following:

	irritation redness
Ingestion	: No specific data.

Notes to physician	: No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Flash point	: Closed cup: >158°C (>316.4°F) [Estimated]
Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	In a fire or if heated, a pressure increase will occur and the container may burst.No specific data.
Special protective actions for fire-fighters Special protective equipment for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling **Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Advice on general : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before occupational hygiene eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Store in accordance with local regulations. Store in original container protected з. from direct sunlight in a dry, cool and well-ventilated area, away from incompatible including any materials (see Section 10) and food and drink. Store locked up. Keep container incompatibilities tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



Section 8. Exposure controls/personal protection

Control parameters

Appropriate engineering controls	 Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measure		
Hygiene measures	ash hands, forearms and face thoroughly after handling chemical products, be ting, smoking and using the lavatory and at the end of the working period. propriate techniques should be used to remove potentially contaminated cloth ontaminated work clothing should not be allowed out of the workplace. Wash ntaminated clothing before reusing. Ensure that eyewash stations and safety owers are close to the workstation location.	ning.
Eye/face protection	Ifety eyewear complying with an approved standard should be used when a ris sessment indicates this is necessary to avoid exposure to liquid splashes, mis ses or dusts. If contact is possible, the following protection should be worn, less the assessment indicates a higher degree of protection: safety glasses v le-shields.	sts,
Hand protection	nemical-resistant, impervious gloves complying with an approved standard sho worn at all times when handling chemical products if a risk assessment indica s is necessary. Considering the parameters specified by the glove manufactur eck during use that the gloves are still retaining their protective properties. It ould be noted that the time to breakthrough for any glove material may be ferent for different glove manufacturers. In the case of mixtures, consisting of veral substances, the protection time of the gloves cannot be accurately timated.	ates urer,
Body protection	ersonal protective equipment for the body should be selected based on the tas ing performed and the risks involved and should be approved by a specialist fore handling this product.	k
Other skin protection	propriate footwear and any additional skin protection measures should be lected based on the task being performed and the risks involved and should b proved by a specialist before handling this product.	e
Respiratory protection	e a properly fitted, air-purifying or air-fed respirator complying with an approve andard if a risk assessment indicates this is necessary. Respirator selection n based on known or anticipated exposure levels, the hazards of the product an e safe working limits of the selected respirator.	nust
Thermal hazards	ot available.	

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Amber., Clear.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/Freezing point	:	Not available.



Section 9. Physical and chemical properties

Boiling/condensation point	: Not available.
Flash point	: Closed cup: >158°C (>316.4°F) [Estimated]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	Not available.
Relative density	: 1.12
Solubility in water	: Reacts with water
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Endpoint	Species	Result
hexamethylene-diisocyanate, homopolymer	OECD 403 Acute Inhalation Toxicity	LC50 Inhalation Dusts and mists	Rat - Female	390 mg/m³
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>2000 mg/kg
	OECD 423 Acute Oral toxicity - Acute Toxic Class Method	LD50 Oral	Rat - Female	>2500 mg/kg

Irritation/Corrosion



Product/ingredient name	Test	Species	Result
hexamethylene-diisocyanate, homopolymer	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Mild irritant
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Mild irritant

Conclusion/Summary

Skin	hexamethylene- N diisocyanate, homopolymer	Non-irritating to the skin.
Eyes	hexamethylene- N diisocyanate, homopolymer	Non-irritating to the eyes.
Respiratory	hexamethylene- N diisocyanate, homopolymer	No additional information.

Sensitization

Product/ingredient name	Test	Route of exposure	Species	Result
hexamethylene-diisocyanate, homopolymer	-	Respiratory	Guinea pig	Not sensitizing
nomopolymei		skin	Mouse	Sensitizing

Mutagenicity

Product/ingredient name	Test	Result
hexamethylene-diisocyanate, homopolymer	Experiment: In vitro Subject: Bacteria Metabolic activation: +/- Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative Negative
	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: +/-	Negative

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hexamethylene-diisocyanate, homopolymer	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.



Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health e	ffects	<u>5</u>
Eye contact		No known significant effects or critical hazards.
Inhalation	:	Harmful if inhaled. May cause respiratory irritation.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the	e phy	vsical, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	1	No specific data.
Delayed and immediate	effec	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

Product/ingredient name	Test	Endpoint	Species	Result	
hexamethylene-diisocyanate, homopolymer	OECD 413 Subchronic Inhalation Toxicity: 90-day Study	Sub-chronic NOEC Inhalation Dusts and mists	Rat	3.3 to 3.4 mg/m ³	
General :	Once sensitized, a seve very low levels.	ere allergic reaction may o	occur when sub	sequently exposed to	
Carcinogenicity :	No known significant effects or critical hazards.				
Mutagenicity :	No known significant effects or critical hazards.				
Teratogenicity :	lo known significant effects or critical hazards.				
Developmental : effects	No known significant effects or critical hazards.				
Fertility effects :	No known significant effects or critical hazards.				

3/20/2015.



Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	1.511 mg/l

Other information

: Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Test	Endpoint		Exposure	Species	Result	
hexamethylene-diisocyanate, homopolymer	DIN DIN 38412 (Lumistox test)	Acute	EC50	72 hours Static	Algae	>1000	mg/l
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	EC50	3 hours Static	Bacteria	3828	mg/l
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	>100	mg/l
	EU EC C.1 Acute Toxicity for Fish	Acute	LC50	96 hours Static	Fish	>100	mg/l

Persistence and degradability

Product/ingredient name	Test	Period		Result	
hexamethylene-diisocyanate, homopolymer	EU		28 days		1 %
Product/ingredient name	Aquatic half-life	Photolysis		Biodeg	radability
hexamethylene-diisocyanate, homopolymer	Fresh water 0.32 days	-		Not rea	adily

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects : No known significant effects or critical hazards.

Other ecological information

BOD5	: Not determined.
COD	: Not determined.
тос	: Not determined.



9/13 Distributed By

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled
	material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Proper shipping name

DOT	: Not regulated.	
TDG	: Not regulated.	
IMDG	: Not regulated.	
ΙΑΤΑ	: Not regulated.	

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-		-
TDG Classification	Not regulated.	-	-		-
IMDG Classification	Not regulated.	-	-		-
IATA Classification	Not regulated.	-	-		-

PG* : Packing group

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

United States Regulations

TSCA 8(b) inventory	: All components are listed or exempted.
TSCA 5(a)2 final significant new use rule (SNUR)	: No ingredients listed.

Section 15. Regulatory information

	-
TSCA 5(e) substance consent order	: No ingredients listed.
TSCA 12(b) export notification	: No ingredients listed.
SARA 311/312	: Immediate (acute) health hazard
Clean Air Act - Ozone Depleting Substances (ODS)	: This product does not contain nor is it manufactured with ozone depleting substances.
SARA 313	: No ingredients listed.

	Ingredient name	<u>%</u>	<u>Section 304</u> <u>CERCLA</u> <u>Hazardous</u> <u>Substance</u>	<u>CERCLA</u> <u>Reportable</u> <u>Quantity</u> (Lbs)	<u>Product</u> <u>Reportable</u> <u>Quantity</u> (Lbs)
CERCLA Hazardous : substances	: Hexamethylene diisocyanate	0.039	Listed	100	256410
	Toluene-2, 4-diisocyanate	0.02217	Listed	100	451060
	Toluene-2, 6-diisocyanate	0.02217	Listed	100	451060
	2-Butoxyethanol	0.0002	Listed	No RQ assigned	

State regulations				
PENNSYLVANIA - RTK	1	No ingredients listed.		
California Prop 65	:	WARNING: This product con California to cause cancer.	ntains less tha	an 0.1% of a chemical known to the State of
		Ingredient name	<u>Cancer</u>	Reproductive
		Toluene-2,4-diisocyanate Toluene-2,6-diisocyanate	Yes. Yes.	No. No.
Canadian regulations				
CEPA DSL	:	All components are listed or	exempted.	
WHMIS Classes	:	Class D-2A: Material causing Class D-2B: Material causing		
•				criteria of the Controlled Products by the Controlled Products Regulations.
Brazil Regulations				

Classification system	:	Norma ABNT-NBR 14725-2:2012
used		

Section 15. Regulatory information

International lists	: Australia inventory (AICS): At least one component is not listed.
	China inventory (IECSC): Not determined.
	Japan inventory: At least one component is not listed.
	Korea inventory: Not determined.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.
	Philippines inventory (PICCS): Not determined.
	Taiwan inventory (CSNN): Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health		2
Flammability		1
Physical hazards		1
Personal protection		

The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Further information	:	
Date of printing	: 3/20/2	015.
Date of issue	: 3/20/2	015.
Date of previous issue	: 6/17/2	013.
Version	: 3	

Indicates information that has changed from previously issued version.

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Notice to reader



Section 16. Other information

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO HUNTSMAN, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS.

SAFETY DATA SHEET



RENPIM® 6486 PO US

1. Product and company identification

Product name	:	RENPIM® 6486 PO US
Material uses	:	Polyol component for tooling systems
MSDS #	:	00066915
Validation date	-	6/28/2013.
Supplier/Manufacturer	:	Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387
		Non-Emergency phone: (800) 257-5547
e-mail address of person responsible for this SDS	:	MSDS@huntsman.com

: Chemtrec: (800) 424-9300 or (703) 527-3887

Section 2. Hazards identification

In case of emergency (24h/7day)

Physical state	: Liquid.
Odor	: Characteristic.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION [Fertility] - Category 1B TOXIC TO REPRODUCTION [Unborn child] - Category 1B AQUATIC TOXICITY (ACUTE) - Category 1 AQUATIC TOXICITY (CHRONIC) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 May cause an allergic skin reaction. May damage fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statements	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Avoid release to the environment. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace. Collect spillage. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.
6/28/2013.	00066915



Section 2. Hazards identification

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine benzyl butyl phthalate	30 - 60 13 - 30	106264-79-3 85-68-7
Tall Oil Fatty Acid Rosin, Colophony dibutyl phthalate	1 - 3 0.1 - 1 0 - 0.1	8002-26-4 8050-09-7 84-74-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to physician	: No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

00066915

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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Flash point

6/28/2013.

: Closed cup: >176°C (>348.8°F)

Hazardous thermal decomposition products

2/14

Section 5. Fire-fighting measures

	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for containment and cleaning up		Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.





Section 7. Handling and storage

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits
dibutyl phthalate			ACGIH TLV (United States, 3/2012). TWA: 5 mg/m ³ 8 hours. OSHA PEL (United States, 6/2010). TWA: 5 mg/m ³ 8 hours.
Appropriate engineering controls	:		es, gas, vapor or mist, use process enclosures, neering controls to keep worker exposure to ommended or statutory limits.
Environmental exposure controls	:		
Individual protection measu	<u>res</u>		
Hygiene measures	:	eating, smoking and using the lavatory Appropriate techniques should be use Contaminated work clothing should no	d to remove potentially contaminated clothing. of be allowed out of the workplace. Wash Ensure that eyewash stations and safety
Eye/face protection	:	assessment indicates this is necessar gases or dusts. If contact is possible,	proved standard should be used when a risk y to avoid exposure to liquid splashes, mists, the following protection should be worn, her degree of protection: safety glasses with

00066915



Section 8. Exposure controls/personal protection

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Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Liquid.
Color	1	Not available.
Odor	1	Characteristic.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point/Freezing point	:	Not available.
Boiling/condensation point	:	Not available.
Flash point	:	Closed cup: >176°C (>348.8°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	;	Not available.
Vapor pressure		Not available.
Vapor density	:	Not available.
Specific gravity	:	1.12
Water Solubility	:	Not available.
Water Solubility	:	Slight
Partition coefficient: n-	:	Not available.
octanol/water		Nieć svelista
Auto-ignition temperature	÷	Not available.
Decomposition temperature	÷	Not available.
Viscosity	÷	Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.



Section 10. Stability and reactivity			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		
Conditions to avoid	: No specific data.		
Incompatible materials	: No specific data.		
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Endpoint	Species	Result
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	-	LD50 Dermal	Rabbit	>2000 mg/kg
	-	LD50 Oral	Rat	1515 mg/kg
benzyl butyl phthalate	-	LC50 Inhalation Gas.	Rat	>6.7 mg/l
5 5 1	-	LD50 Dermal	Rabbit	>10000 mg/kg
	-	LD50 Oral	Mouse	4170 mg/kg
	-	LD50 Oral	Rat	2330 mg/kg
dibutyl phthalate	No official guidelines	LC50 Inhalation Dusts and mists	Rat - Male, Female	>15.68 mg/l
	No official guidelines	LD50 Dermal	Rabbit	>20000 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	6279 mg/kg

Irritation/Corrosion

Product/ingredient name	Test	Species	Result
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	-	Rabbit	Skin - Non-irritant.
	-	Rabbit	Eyes - Non-irritant.
dibutyl phthalate	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Non-irritant.
	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Non-irritant.

Conclusion/Summary

Skin	:	6-methyl-2,4-bis (methylthio) phenylene-1, 3-diamine benzyl butyl phthalate Tall Oil Fatty Acid Rosin, Colophony dibutyl phthalate	Non-irritating to the skin. No additional information. No additional information. No additional information. Non-irritating to the skin.
Eyes	:	6-methyl-2,4-bis (methylthio) phenylene-1, 3-diamine benzyl butyl phthalate Tall Oil Fatty Acid Rosin, Colophony dibutyl phthalate	Non-irritating to the eyes. No additional information. No additional information. No additional information. Non-irritating to the eyes.

00066915



Respiratory	: 6-methyl-2,4-bis (methylthio) phenylen 3-diamine benzyl butyl phthalate Tall Oil Fatty Acid Rosin, Colophony dibutyl phthalate	

No additional information.

No additional information. No additional information. No additional information. No additional information.

Sensitization

Product/ingredient name	Test	Route of exposure	Species	Result
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	-	skin	Guinea pig	Sensitizing
Tall Oil Fatty Acid	OECD 406 Skin Sensitization	skin	Guinea pig	Not sensitizing
dibutyl phthalate	OECD 406 Skin Sensitization	skin	Guinea pig	Not sensitizing

Mutagenicity

Product/ingredient name	Test	Result
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	Experiment: In vitro Subject: Bacteria	Positive
	Experiment: In vivo Subject: Mammalian-Animal	Negative
dibutyl phthalate	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: Yeast Metabolic activation: +/-	Negative
	Experiment: In vitro Subject: bacteria/yeast Metabolic activation: +/-	Negative
	Experiment: In vivo Subject: Mammalian-Animal	Negative
Conclusion/Summary :		+

dibutyl phthalate

Not mutagenic in a standard battery of genetic toxicological tests.

Carcinogenicity

Conclusion/Summary

dibutyl phthalate

In accordance with column 2 of Annex VII - X of Regulation (EC) No 1907/2006, the test for this property of the substance does not need to be conducted.

Carcinogenic class

Product/ingredient name	OSHA	IARC
benzyl butyl phthalate	-	3

Reproductive toxicity



Product/ingredient name	Test	Species	Maternal toxicity	Fertility	Developmental effects
dibutyl phthalate	No official guidelines	Rat - Male, Female	Positive	Positive	Positive

Teratogenicity

Product/ingredient name	Test	Species	Result/Result type
dibutyl phthalate	No official guidelines No official guidelines		Positive - Oral Positive - Oral

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Potential chronic health effects

Product/ingredient name	Test	Endpoint	Species	Result		
dibutyl phthalate	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Sub-chronic NOAEL Oral	Rat - Male, Female	152 mg/kg/d		
	OECD 412 Repeated Dose Inhalation Toxicity: 28-day or 14-day Study	Sub-chronic NOEC Inhalation Dusts and mists	Rat - Male, Female	509 mg/m³		
General :	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.					
Carcinogenicity :	No known significant el	No known significant effects or critical hazards.				
Mutagenicity :	No known significant el	No known significant effects or critical hazards.				
Teratogenicity :	May damage the unbor	May damage the unborn child.				
Developmental : effects	No known significant effects or critical hazards.					
Fertility effects :	May damage fertility.					

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2135.6 mg/kg

Section 12. Ecological information

Aquatic ecotoxicity



8/14

Product/ingredient name	Test Endpoint			Exposure	Species	Result	Result	
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	-	Acute	EC50	72 hours	Algae	7.6	mg/l	
	-	Acute	EC50	48 hours	Daphnia	0.9	mg/l	
	-	Acute	IC50	3 hours	Bacteria	1000	mg/l	
	-	Acute	LC50	96 hours	Fish	7.3	mg/l	
	_	Chronic	NOEC	72 hours	Algae	1.9	mg/l	
benzyl butyl phthalate	-	Acute	EC50	96 hours	Algae	0.02 to 0. 25		
	-	Acute	EC50	48 hours	Daphnia	1 to 10	mg/l	
	-	Acute	IC50	72 hours	Algae	0.92 to 4. 6		
	-	Acute	LC50	96 hours Flow- through	Fish	0.82	mg/l	
	-	Acute	LC50	96 hours Static	Fish	1 to 10	mg/l	
	-	Acute	LC50	96 hours Static	Fish	1 to 10	mg/l	
	-	Acute	LC50	96 hours	Fish	1.5	mg/l	
	-	Chronic	EC50	48 hours	Daphnia	0.97	mg/l	
Tall Oil Fatty Acid	OECD 201 Alga, Growth Inhibition Test	Acute	EC50	72 hours	Algae	2.73	mg/l	
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours	Daphnia	39.7	mg/l	
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	5 to 10	mg/l	
dibutyl phthalate	No official guidelines	Acute	EC50	10 days Static	Algae	0.75	mg/l	
	No official guidelines	Acute	EC50	24 hours	Bacteria	2.2	mg/l	
	EPA OPPTS	Acute	EC50	48 hours Static	Daphnia	2.99	mg/l	
	EPA OPPTS	Acute	LC50	96 hours Static	Daphnia	0.5	mg/l	
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	0.48	mg/l	
	No official guidelines	Chronic	NOEC	10 days Static	Algae	0.39	mg/l	
	DIN DIN 38412 Part 27	Chronic	NOEC	30 minutes Static	Bacteria	>10	mg/l	
	No official guidelines	Chronic	NOEC	10 days	Daphnia	0.1	mg/l	
	No official guidelines	Chronic	NOECr	99 days	Fish	0.1	mg/l	

Persistence and degradability

Product/ingredient name	Test	Period	Result
benzyl butyl phthalate Tall Oil Fatty Acid	- OECD 301F Ready Biodegradability -	28 days 28 days	>60 % 73 %
	Manometric Respirometry Test	20 uays	13 /0
	OECD 301D Ready Biodegradability -	28 days	60 %
dibutyl phthalate	Closed Bottle Test EPA OPPTS	21 days	>97 %
	EU EC C.4-C Biodegradation:	28 days	81 %
	Determination of the "Ready" Biodegradability: Carbon Dioxide Evolution		
	Test		

Conclusion/Summary

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00066915



9/14

6-methyl-2,4-bis (methylthio) phenylene-1, 3-diamine dibutyl phthalate Not readily biodegradable.

Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzyl butyl phthalate	-	-	Readily
Tall Oil Fatty Acid	-		Readily
dibutyl phthalate	Fresh water 2.7 days		Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine	-	9.8 to 25	low
benzyl butyl phthalate dibutyl phthalate	4.91 4.46	12 <1	low low

Other adverse effects

: No known significant effects or critical hazards.

Other ecological information

BOD5	: Not determined.
COD	: Not determined.
тос	: Not determined.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Proper shipping name

- **DOT** : Environmentally hazardous substance, liquid, n.o.s. (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1, 3-DIAMINE, BENZYL BUTYL PHTHALATE). Marine pollutant
- **TDG** : Environmentally hazardous substance, liquid, n.o.s. (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1, 3-DIAMINE, BENZYL BUTYL PHTHALATE). Marine pollutant
- **IMDG** : Environmentally hazardous substance, liquid, n.o.s. (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1, 3-DIAMINE, BENZYL BUTYL PHTHALATE). Marine pollutant
- IATA : Environmentally hazardous substance, liquid, n.o.s. (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1, 3-DIAMINE, BENZYL BUTYL PHTHALATE)



Section 14. Transport information

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	UN3082	9			Only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft. <u>Reportable</u> <u>quantity</u> 502.51 lbs / 228.14 kg [53.811 gal / 203.7 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	UN3082	9	111		-
IMDG Classification	UN3082	9	111		<u>Emergency</u> <u>schedules (EmS)</u> F-A, S-F
IATA Classification	UN3082	9	111		Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964



Section 14. Transport information

PG* : Packing group

Section 15. Regulatory information

United States

U.S. Federal regulations	
TSCA 8(b) inventory	: All components are listed or exempted.
TSCA 5(a)2 final significant new use rule (SNUR)	: No ingredients listed.
TSCA 5(e) substance consent order	: No ingredients listed.
TSCA 12(b) export notification	: No ingredients listed.
SARA 311/312	: Immediate (acute) health hazard Delayed (chronic) health hazard
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	: No ingredients listed.
Clean Air Act - Ozone Depleting Substances (ODS)	: This product does not contain nor is it manufactured with ozone depleting substances.
SARA 313	: No ingredients listed.

	Ingredient name	<u>%</u>	Section 304 CERCLA Hazardous Substance	<u>CERCLA</u> <u>Reportable</u> <u>Quantity</u> (Lbs)	<u>Product</u> <u>Reportable</u> <u>Quantity</u> (Lbs)
CERCLA Hazardous	 benzyl butyl phthalate DIBUTYL PHTHALATE (DBP) 	19.9	Listed	100	503
substances		0.1	Listed	10	10000

State regulations					
PENNSYLVANIA - RTK	: No ingredients listed.				
California Prop 65	: WARNING: This product contains a chemical known to the State of California to caus birth defects or other reproductive harm.				
	Ingredient name	<u>Cancer</u>	Reproductive		
	benzyl butyl phthalate dibutyl phthalate	No. No.	Yes. Yes.		
International regulations					
<u>Canada</u>					
CEPA DSL	: All components are listed	or exempted.			
WHMIS Classes	: Class D-2A: Material caus Class D-2B: Material caus				
0/00/0040		00000045			

00066915



Section 15. Regulatory information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

<u>Brazil</u> Regulation	: Decreto Federal n.º 2657 de 3 de novembro de 1998
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: At least one component is not listed. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health		2
Flammability		1
Physical hazards		0
Personal protection		

The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)	: Health 2 0 Instability Special		
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intended to be i	01, National Fire Protection Association, Quincy, MA 02269. This warning system is interpreted and applied only by properly trained individuals to identify fire, health and ds of chemicals. The user is referred to certain limited number of chemicals with		

recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

00066915

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Section 16. Other information

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