

SAFETY DATA SHEETS

This SDS packet was issued with item:

076468441

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070467209 076468201 076468219 076468227 076468235 076468243 076468250 076468268 076468276 076468383

076468391 076468409 076468417 076468425 076468433 076468458 076468615 076468698

1. Chemical Product and Contact Information

Product Name: Correct Plus® Fast Set Impression Material

Material Safety Sheet Number: 00052

Date of Issue: 08/02/06

Revision Date: 03/29/10

Company Identification: Pentron Clinical
 1717 West Collins Ave
 Orange, CA 92867
 Phone: 800-551-0283
 203-265-7397

Emergency Information Chemtrec: 800-424-9300

Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical characteristics: Polyvinylidimethylsiloxane.
Description: Polyvinylsiloxane resin mixture with inorganic fillers, pigments, platinum catalyst and SiH capped polysiloxane.

Hazardous components:

Element	CAS #	Exposure Limit mg/m ³	
		OSHA PEL	ACGIH TLV
Polyvinylidimethylsiloxane	68083-18-1	N/E	N/E
Inorganic Fillers	Mixture	N/A	N/A
Pigments	Various	N/A	N/A
Platinum Catalyst	N/A	N/A	N/A
SiH capped polysiloxane	68037-59-2	N/E	N/E

3. Hazard Identification

Risk identification: Unknown.

Special risks for human beings and environment: Unknown.

Classification: Unknown.

4. First Aid Measures

General information:

After skin contact: Wash with plenty of water and soap. Consult a physician if irritation occurs.

After eye contact: Immediately flush eyes with eyelids retracted with water for 15 minutes.

After swallowing: Consult an ophthalmologist if needed.

After swallowing: Seek medical advice immediately.

5. Fire Fighting Measures

Extinguishing media: Sand, chemical foam, carbon dioxide or dry chemical.
 During a fire, irritating and/or toxic gases and aerosols may be present from the decomposition/combustion products.

Protective equipment: Firefighters should wear full protective clothing, including a self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions: Protective gloves and goggles. Avoid skin contact.

Environmental precautions: Unknown.

Methods for cleaning up: Absorb with inert material. Collect in closed containers and dispose in accordance with Federal, State, and local regulations.

Additional information: Unknown.

7. Handling and Storage

Handling: Practice normal hygienic measures.

Storage: Store at ambient temperature, away from direct sunlight, initiators, oxidizing, and/or reducing agents.

8. Exposure Controls/Personal Protection

Personal protective equipment: General measure of protection and hygiene: Respiration: Hands: Eyes:	Protective gloves, goggles, protective mask and a rubber apron. Normal hygienic measures. Protective mask. Protective gloves. OSHA approved goggles.
---	--

9. Physical and Chemical Properties

Appearance: Form: Color: Odor:	Gel or Putty-like. Shaded. Odorless.
---	--

Information on change in the physical state Melting point/melting range: Boiling point/boiling range: Flash point: Autoignition temperature: Danger of explosion: Density: Vapor pressure: Viscosity: pH: Solubility in/miscibility with water: Content of solvents: Percent volatile: Water: Content of solids:	Not applicable. Not applicable. 485°F (252°C) Closed cup - DIN 51755. Unknown. Unlikely. Various. Not applicable. Not applicable. Not applicable. Insoluble. None. < 2%. None. Various.
--	--

10. Stability and Reactivity

Incompatibility with other substances: Hazardous decomposition products:	Not applicable. Not applicable.
---	------------------------------------

11. Toxicological Information

Carcinogenicity: IARC, NTP, TLV: Primary routes of entry:	None of the components of this material are listed by OSHA, or ACGIH as carcinogens. None. Inhalation, skin, and eyes.
--	--

12. Ecological Information

General information: Classification of water endangerment:	Unknown. Unknown.
---	----------------------

13. Disposal Considerations

Disposal consideration:	Dispose in accordance with Federal, State, and local regulations.
-------------------------	---

14. Transport Information

Not classified as dangerous goods.

15. Regulatory Information

Classification according to EEC guidelines: National Prescriptions: Classification according to VbF:	Unknown. Unknown. Unknown.
--	----------------------------------

16. Other Information

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

Correct Plus™ Fast Set Impression Material Base and Catalyst

Section 1. Identification

GHS product identifier : Correct Plus™ Fast Set Impression Material Base and Catalyst
Other means of identification : Not available.
Product type : Paste.

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

Product use : Dental product: Denture impression material.
Area of application : Professional applications.

Manufacturer : **Pentron Clinical**
 1717 West Collins Avenue
 Orange, CA 92867-5422
 Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283

e-mail address of person responsible for this SDS : edwin.varela@kavokerrgroup.com

Emergency telephone number (with hours of operation) : CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Health effects are based on the uncured material.

Classification of the substance or mixture : TOXIC TO REPRODUCTION (Fertility) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 100%

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : Suspected of damaging fertility.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Date of issue/Date of revision : 05/15/2015 **Date of previous issue** : No previous validation **Version** : 1 1/11

Section 2. Hazards identification

Supplemental label elements : Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.

Product code : Q36B, Q36BB, Q36A, Q36AA

Ingredient name	Other names	%	CAS number
Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated octamethylcyclotetrasiloxane	Not available.	5-10	69013-23-6
	octamethylcyclotetrasiloxane	0.1-1	556-67-2

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Inhalation** : No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
- Skin contact** : No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. 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. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

Special protective actions for fire-fighters : In case of major fire and large quantities: 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** : Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
- For emergency responders** : Low release. See also the information in "For non-emergency personnel".

Environmental precautions : Low release. 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

Date of issue/Date of revision : 05/15/2015 **Date of previous issue** : No previous validation **Version** : 1 3/11

Section 6. Accidental release measures

- Small spill** : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
- Large spill** : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
- 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

None.

- Appropriate engineering controls** : No special measures are required for small quantities under normal and intended conditions of product use.
- Environmental exposure controls** : No special measures are required for small quantities under normal and intended conditions of product use.

Individual protection measures

- Hygiene measures** : No special measures are required for small quantities under normal and intended conditions of product use.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- 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** : No special measures are required for small quantities under normal and intended conditions of product use.
- 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.

Section 8. Exposure controls/personal protection

Respiratory protection : No special measures are required for small quantities under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Paste.]

Color : Various

Odor : Odorless.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: 252°C (485.6°F) [DIN 51755]

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

Lower and upper explosive (flammable) limits : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : Not available.

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

SADT : 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.
Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : Keep away from heat and direct sunlight.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and reducing materials.
Initiators.

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	Result	Species	Dose	Exposure
Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated	LD50 Dermal	Rabbit	>2000 mg/kg	-
octamethylcyclotetrasiloxane	LD50 Oral	Rat	>2000 mg/kg	-
	LC50 Inhalation Vapor	Rat	36 g/m ³	4 hours
	LD50 Dermal	Rat	1770 mg/kg	-
	LD50 Oral	Rat	1540 mg/kg	-

Conclusion/Summary : Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.
Based on analysis and test results, this product is considered as biocompatible per EN ISO 7405:2008 and EN ISO 10993-1:2009.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
octamethylcyclotetrasiloxane	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : Defatting to the skin. May cause skin dryness and irritation.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Section 11. Toxicological information

- Inhalation** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- 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

Not available.

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	10919.7 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
octamethylcyclotetrasiloxane	Chronic NOEC 1.7 to 15 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 4.4 µg/l Fresh water	Fish - Oncorhynchus mykiss -	93 days
		Egg	

Persistence and degradability

Date of issue/Date of revision : 05/15/2015 **Date of previous issue** : No previous validation **Version** : 1 7/11

Section 12. Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
octamethylcyclotetrasiloxane	-	0 % - 42 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
octamethylcyclotetrasiloxane	6.488	13400	high

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

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.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

- U.S. Federal regulations** : **TSCA 8(a) PAIR**: octamethylcyclotetrasiloxane; Nonylphenol, branched, ethoxylated; 1, 1,3,3-tetramethyl-1,3-divinyl-disiloxane; 2,4,6,8-tetramethyl-2,4,6, 8-tetravinylcyclotetrasiloxane
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 311: Formaldehyde

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Formaldehyde	<0.00019	Yes.	500	73.9	100	14.8

SARA 304 RQ : 58479532.2 lbs / 26549707.6 kg

SARA 311/312

Classification : Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Siloxanes and Silicones, di-Me, Me hydrogen, hydrogen-terminated octamethylcyclotetrasiloxane	5-10	No.	No.	No.	Yes.	No.
	0.1-1	Yes.	No.	No.	No.	Yes.

SARA 313

Not applicable.

State regulations

Massachusetts : The following components are listed: BARIUM SULFATE; AMORPHOUS SILICA; STARCH DUST; CALCIUM CARBONATE; PRECIPITATED SILICA

New York : None of the components are listed.

New Jersey : The following components are listed: BARIUM SULFATE; SULFURIC ACID, BARIUM SALT (1:1); CALCIUM CARBONATE; LIMESTONE; SILICA, AMORPHOUS, PRECIPITATE & GEL

Pennsylvania : The following components are listed: BARIUM SULFATE; SILICA; STARCH; LIMESTONE; PRECIPITATED SILICA

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
crystalline silica respirable Formaldehyde	Yes. Yes.	No. No.	No. Yes.	No. No.

Section 16. Other information

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

Health	*	2
Flammability		1
Physical hazards		0

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.

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

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



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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.

History

Date of issue/Date of revision : 05/15/2015

Date of previous issue : No previous validation

Version : 1

Prepared by : IHS

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : HCS (U.S.A.)- Hazard Communication Standard
International transport regulations

▣ Indicates information that has changed from previously issued version.

Date of issue/Date of revision : 05/15/2015 **Date of previous issue** : No previous validation **Version** : 1 10/11

Section 16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.