1. Product and Company Identification

Product Name: BAYSEAL CC ISO PL
Material Number: 81229881
Chemical Family: Aromatic Isocyanate
Chemical Name: Polymeric Diphenylmethane Diisocyanate (pMDI)

2. Hazards Identification

Emergency Overview

Toxic gases/fumes may be given off during burning or thermal decomposition. Closed
container may forcibly rupture under extreme heat or when contents have been
contaminated with water. Use cold water spray to cool fire-exposed containers to
minimize the risk of rupture. Causes respiratory tract irritation. May cause allergic
respiratory reaction. Harmful if inhaled. Respiratory sensitizer. Lung damage and
respiratory sensitization may be permanent. When this product is sprayed, a full-face or
hood-type supplied air respirator is required. Causes skin irritation. May cause allergic
skin reaction. Skin sensitizer. Animal tests and other research indicate that skin contact
with MDI can play a role in causing isocyanate sensitization and respiratory reaction.
Causes eye irritation. May cause lung damage.

Potential Health Effects

Primary Routes of Entry: Inhalation, Eye Contact, Skin Contact
Medical Conditions Aggravated by Exposure: Asthma, Respiratory disorders, Skin Allergies, Eczema

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation
Acute Inhalation
For Product: BAYSEAL CC ISO PL
Disiocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the
mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing,
chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

**Chronic Inhalation**

**For Product: BAYSEAL CC ISO PL**

As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to diisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to diisocyanates at levels well below the TLV or PEL. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Similar to many nonspecific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to diisocyanates has also been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent.

**Skin**

**Acute Skin**

**For Product: BAYSEAL CC ISO PL**

Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration.

**Chronic Skin**

**For Product: BAYSEAL CC ISO PL**

Prolonged contact can cause reddening, swelling, rash, and, in some cases, skin sensitization. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction.

**Eye**

**Acute Eye**

**For Product: BAYSEAL CC ISO PL**

Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

**Chronic Eye**

**For Product: BAYSEAL CC ISO PL**

Prolonged vapor contact may cause conjunctivitis.

**Ingestion**

**Acute Ingestion**

**For Product: BAYSEAL CC ISO PL**

May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

**Carcinogenicity:**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

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**3. Composition/Information on Ingredients**

**Hazardous Components**

---
### Weight %

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 - 60% Polymeric Diphenylmethane Disocyanate (pMDI)</td>
<td>9016-87-9</td>
</tr>
<tr>
<td>40 - 50% 4,4'-Diphenylmethane Diisocyanate (MDI)</td>
<td>101-68-8</td>
</tr>
<tr>
<td>1 - 5% Diphenylmethane Diisocyanate (MDI) Mixed Isomers</td>
<td>26447-40-5</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

#### Eye Contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention.

#### Skin Contact
Immediately remove contaminated clothing and shoes. Wash off with soap and water. Use lukewarm water if possible. Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops.

#### Inhalation
Move to an area free from further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

#### Ingestion
Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention.

#### Notes to physician
**Eyes:** Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. **Skin:** This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. **Ingestion:** Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. **Inhalation:** Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

### 5. Fire-Fighting Measures

#### Suitable Extinguishing Media:
Dry chemical, carbon dioxide (CO2), foam, water spray for large fires.

#### Special Fire Fighting Procedures
Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

#### Unusual Fire/Explosion Hazards
Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO2 formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between...
water and hot diisocyanate can be vigorous. The reaction of this product with a polyol system ("B" side) will release heat (e.g., it is an exothermic reaction). Thus, spraying foam too thickly in a single lift, or not allowing sufficient time between lifts, can result in excessive heat generation to the point where the foam may char, smolder or burn. Refer to the appropriate BaySystems technical datasheet for application instructions.

6. Accidental release measures

Spill and Leak Procedures
Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Call Bayer for assistance and advice. Major Spill or Leak (Standing liquid): Released material may be pumped into closed, but not sealed, metal container for disposal. Process can generate heat. Minor Spill or Leak (Wet surface): Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Swype® test kits have been used for this purpose. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO2) escape.

Additional Spill Procedures/Neutralization
Neutralization solutions:
(1) Colorimetric Laboratories Inc. (CLI) decontamination solution.
(2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% n-propanol.
(3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).
(4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

Bayer requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

7. Handling and Storage

Storage Temperature:
minimum: 10 °C (50 °F)
maximum: 37.78 °C (100 °F)

Storage Period
6 Months

Handling/Storage Precautions
Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases
created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

**Further Info on Storage Conditions**
Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### 8. Exposure Controls / Personal Protection

**4,4’-Diphenylmethane Diisocyanate (MDI) (101-68-8)**

**US. ACGIH Threshold Limit Values**
- **Time Weighted Average (TWA):** 0.005 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**
- **Ceiling Limit Value:** 0.02 ppm, 0.2 mg/m3

**Industrial Hygiene/Ventilation Measures**
Ventilation should be used to maintain levels below the TLV. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, Bayer, and others have developed sampling and analytical methods. Bayer methods can be made available upon request.

**Respiratory Protection**
Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C (PEL) can occur in inadequately ventilated environments when MDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. When this product is sprayed in combination with a polyol system (“B” side), a full-face or hood-type supplied air respirator operated in the positive pressure or continuous flow mode is required. For exterior spray applications where the use of supplied air respiratory protection may create a safety hazard (e.g., roof applications), an air purifying respirator with combination organic vapor/particulate (P100) cartridges may be substituted for a supplied air respirator. When handling heated product, an air purifying respirator (APR) with combination organic vapor/particulate (P100) cartridges is required. The respiratory protection selected must comply with the requirements set forth in OSHA’s Respiratory Protection Standard (29 CFR 1910.134). When APRs are used, (a) the cartridges must be equipped with end-of-service life indicators (ESLI) certified by NIOSH, or (b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. For APR use, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL.

**Hand Protection**
When this product is sprayed in combination with a polyol system (“B” side), fabric gloves coated in nitrile, neoprene, butyl or PVC are recommended. When handling liquid product, nitrile, butyl, neoprene or PVC gloves are recommended.

**Eye Protection**
When this product is sprayed in combination with a polyol system (“B” side), eye protection will be provided by the full-face or hood-type air supplied respirator as mentioned above in the respiratory protection section. When handling liquid product, chemical safety goggles or safety glasses with side-shields are required.

**Skin and body protection**
When this product is sprayed in combination with a polyol system (“B” side), a disposable full body suit (e.g., Tyvek, Kleenguard, etc.) with attached hood and disposable over-boots are required. When handling liquid product, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin
contact. If the potential for splash to the body exists, impermeable protective clothing (e.g., polyethylene, PVC) is recommended. Animal tests and other research indicate that skin contact with MDI can play a role in causing isocyanate sensitization and respiratory reaction. The data reinforces the need to prevent direct skin contact with isocyanates.

Medical Surveillance
All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted. Refer to the Bayer pamphlet (Medical Surveillance Program for Isocyanate Workers) for additional guidance.

Additional Protective Measures
Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Brown</td>
</tr>
<tr>
<td>Odor</td>
<td>musty</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>&lt; 0 °C (&lt; 32 °F) For the active ingredient.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Approximately 208 °C (406.4 °F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>198.89 °C (390 °F) (Pensky-Martens Closed Cup (ASTM D-93))</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 0.0001 mmHg @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.24 @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble - Reacts slowly with water to liberate CO2 gas</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>10.3 lb/gal</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Hazardous Reactions
Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause polymerization. The reaction of this product with a polyol system ("B" side) will release heat (e.g., it is an exothermic reaction). Thus, spraying foam too thickly in a single lift, or not allowing sufficient time between lifts, can result in excessive heat generation to the point where the foam may char, smolder or burn. Refer to the appropriate BaySystems technical datasheet for application instructions.

Materials to avoid
Water, Amines, Strong bases, Alcohols, copper alloys

Hazardous decomposition products
By Fire and High Heat: hydrogen cyanide; Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, Isocyanate, Isocyanic Acid, Other undetermined compounds

11. Toxicological Information

Toxicity Data for BAYSEAL CC ISO PL

Material Name: BAYSEAL CC ISO PL
Article Number: 81229881

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Toxicity Note
Toxicity data based on polymeric MDI.

Acute Oral Toxicity
LD50: > 2,000 mg/kg (rat, Male/Female)

Acute Inhalation Toxicity
LC50: 490 mg/m3, aerosol, 4 h (rat)

Skin Irritation
rabbit, Slightly irritating

Repeated Dose Toxicity
90 Days, inhalation: NOAEL: 1 mg/m3, (rat, Male/Female, 6 hrs/day 5 days/week)
Irritation to lungs and nasal cavity.
90 Days, inhalation: NOAEL: 1 mg/m3, (rat, Male/Female, 6 hrs/day 5 days/week)
Irritation to lungs and nasal cavity.

Mutagenicity
Genetic Toxicity in Vitro:
Bacterial - gene mutation assay: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity
rat, Male/Female, inhalation, 2 Years, 6 hrs/day 5 days/week
Exposure to a level of 6 mg/m3 polymeric MDI was related to the occurrence of lung tumors. This level is significantly over the TLV for MDI.

Developmental Toxicity/Teratogenicity
rat, female, inhalation, gestation days 6-15, 6 hrs/day, NOAEL (teratogenicity): 12 mg/m3, NOAEL (maternal): 4 mg/m3
No Teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.

Toxicity Data for 4,4’-Diphenylmethane Diisocyanate (MDI)

Acute Inhalation Toxicity
LC50: 369 mg/m3, 4 hrs (rat, Male/Female)
LC50: > 2240 mg/m3, aerosol, 1 h (rat)

Acute dermal toxicity
LD50: > 10,000 mg/kg (rabbit)

Skin Irritation
rabbit, Draize Test, Slightly irritating

Eye Irritation
rabbit, Draize Test, Slightly irritating

Sensitization
dermal: sensitizer (guinea pig, Maximisation Test (GPMT))
inhaled: sensitizer (Guinea pig)

Repeated Dose Toxicity
90 Days, inhalation: NOAEL: 0.3 mg/m3, (rat, Male/Female, 18 hrs/day, 5 days/week)
Irritation to lungs and nasal cavity.

Mutagenicity
Genetic Toxicity in Vitro:
Ames: (Salmonella typhimurium, Metabolic Activation: with/without)
Positive and negative results were reported. The use of certain solvents which rapidly hydrolyze diisocyanates is suspected of producing the positive mutagenicity results.

Genetic Toxicity in Vivo:
Micronucleus Assay: negative (mouse)

Carcinogenicity
rat, Female, inhalation, 2 Years, 17 hrs/day, 5 days/week
negative

12. Ecological Information

Ecological Data for BAYSEAL CC ISO PL
Biodegradation
0 %, Exposure time: 28 Days

Bioaccumulation
Rainbow trout, Exposure time: 112 d, < 1 BCF
Does not bioaccumulate.

Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Zebra fish (Brachydanio rerio), 96 hrs)

Acute Toxicity to Aquatic Invertebrates
EC50: > 1,000 mg/l (Water flea (Daphnia magna), 24 hrs)

Toxicity to Aquatic Plants
NOEC: 1,640 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 hrs)

Toxicity to Microorganisms
EC50: > 100 mg/l, (Activated sludge microorganisms, 3 hrs)

Additional Ecotoxicological Remarks
Ecotoxicity data based on polymeric MDI

Ecological Data for 4,4'-Diphenylmethane Diisocyanate (MDI)

Acute and Prolonged Toxicity to Fish
LC50: > 500 mg/l (Zebra fish (Brachydanio rerio), 24 hrs)

Acute Toxicity to Aquatic Invertebrates
EC50: > 500 mg/l (Water flea (Daphnia magna), 24 hrs)

13. Disposal considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

Empty Container Precautions
Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.
14. Transportation information

**Land transport (DOT)**
- **Proper Shipping Name:** Other regulated substances, liquid, n.o.s. (contains 4,4’-Diphenylmethane Diisocyanate (MDI))
- **Hazard Class or Division:** 9
- **UN/NA Number:** NA3082
- **Packaging Group:** III
- **Hazard Label(s):** Class 9

**RSPA/DOT Regulated Components:**
- 4,4’-Diphenylmethane Diisocyanate (MDI)

**Reportable Quantity:** 10,000 lb

**Sea transport (IMDG)**
- **Non-Regulated**

**Air transport (ICAO/IATA)**
- **Non-Regulated**

**Additional Transportation Information**
When in individual containers of less than the Product RQ, this material ships as non-regulated.

15. Regulatory Information

**United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

**Components**
- 4,4’-Diphenylmethane Diisocyanate (MDI)

**Reportable quantity:** 5,000 lbs

**SARA Section 311/312 Hazard Categories:**
- Acute Health Hazard, Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

**Components**
- None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

**Components**
- Polymeric Diphenylmethane Diisocyanate (pMDI)
- 4,4’-Diphenylmethane Diisocyanate (MDI)
If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

State Right-To-Know Information
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<table>
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<td>26447-40-5</td>
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New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<table>
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California Prop. 65:
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

16. Other Information

NFPA 704M Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Other</th>
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HMIS Rating

<table>
<thead>
<tr>
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<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2*</td>
<td>1</td>
</tr>
</tbody>
</table>

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
* = Chronic Health Hazard

The method of hazard communication for Bayer MaterialScience LLC is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.
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