SAFETY DATA SHEET

VEXCON NO. CS109

STARSEAL 1315 BEADING FLAT

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION:
STARSEAL 1315 BEADING FLAT
VOC CONTENT: <200 GRAMS/LITER OR <1.67 #/GLA
COMMON NAME: VINYL TOLUENE ACRYLATE POLYMER
MANUFACTURER: VEXCON CHEMICALS, INC.
ADDRESS: 7240 STATE RD., PHILA., PA 19135 USA
EMERGENCY NO: 1-800-424-9300 (CCN#23822)
CHEMTREC NO: 1-800-424-9300 (PolySat)
PREPARED: NOVEMBER 1996
UPDATED: SEPTEMBER 2019
PREPARED BY: DARRYL F. MANUEL, PRESIDENT

SECTION II - HAZARD IDENTIFICATION

CLASSIFICATION OF MIXTURE
ASPIRATION - CATEGORY 1
EYE IRRITATION – CATEGORY 2B
SKIN IRRITATION – CATEGORY 2
SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE (NARCOTIC EFFECTS) – CATEGORY 3

SINGLE WORD: WARNING

HAZARD STATEMENT: UNDER NORMAL CONDITIONS OF USE, THIS PRODUCT IS NOT CONSIDERED HAZARDOUS ACCORDING TO REGULATORY GUIDELINES.

PRECAUTIONARY STATEMENT: UNDER NORMAL CONDITIONS OF INTENDED USE, THIS PRODUCT DOES NOT POSE A RISK TO HEALTH. EXCESSIVE EXPOSURE MAY RESULT IN EYE, SKIN OR RESPIRATOR IRRITATION. THIS PRODUCT IS AN ORGANIC LIQUID AND WATER EMULSION. PER NFPA 30 THIS MIXTURE WITH A FLASH POINT GREATER THAN 200 F IS A CLASS III B COMBUSTIBLE LIQUID. ALL PRECAUTIONS PROVIDED ARE FOR THE ORGANIC LIQUID PORTION OF WHICH THIS PRODUCT MAY CONTAIN AS LITTLE AS 5%. USE WITH ADEQUATE VENTILATION. DO NOT INDUCE VOMITING IF SWALLOWED. USE OF A SOLVENT SIMILAR TO MINERAL SPIRITS, AN AQUEOUS SOLUTION OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE CLOTHING IS ADVISED WHEN HANDLING THIS PRODUCT. KEEP FROM FREEZING.

SECTION III HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL OR COMPONENTS</th>
<th>CAS NO.</th>
<th>%</th>
<th>HAZARD DATA</th>
</tr>
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<tr>
<td>VINYL TOLUENE</td>
<td>25085-34-1</td>
<td>20-30%</td>
<td>ND</td>
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<tr>
<td>ACRYLATE POLYMER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STODDARD SOLVENT/ MINERAL SPIRITS</td>
<td>8052-41-3</td>
<td>5-10%</td>
<td>TLV 50 ppm MINERAL SPIRITS</td>
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<tr>
<td>EMULSIFIERS</td>
<td>ND</td>
<td>1-5%</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION IV - FIRST AID MEASURES

HEALTH HAZARD DATA

ROUTE OF EXPOSURE:

INHALATION:
THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.

SKIN CONTACT:
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT COMPONENT

SKIN ABSORPTION:
THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. STODDARD SOLVENT COMPONENT

EYE CONTACT:
THIS PRODUCT MAY BE AN EYE IRRITANT. STODDARD SOLVENT COMPONENT

INGESTION / INHALATION:
CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

EFFECTS OF OVEREXPOSURE:

ACUTE OVEREXPOSURE:
ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.

NOTE ABOUT MINERAL SPIRITS OR STODDARD SOLVENT:

NOTE: THE THRESHOLD LIMIT VALUE (TLV) OF 100 ppm VAPOR IN AIR HAS BEEN ESTABLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS FOR STODDARD SOLVENT AND IS USUALLY APPLICABLE TO MINERAL SPIRITS. IN A STUDY OF EXXON CORP. MEDICAL RESEARCH WITH LABORATORY ANIMALS (RATS) EXPOSED TO VAPORS IN AIR OF A SOLVENT SIMILAR TO MINERAL SPIRITS, KIDNEY DAMAGE WAS NOTED IN MALE RATS AT THIS CONCENTRATION. THE RECENT STUDY SUGGESTS THAT THIS OCCUPATIONAL EXPOSURE LIMIT MAY HAVE TO BE LOWERED FOR THIS PRODUCT. WORK IS CONTINUING TO VALIDATE THESE FINDINGS AND WHETHER A REVISED OCCUPATIONAL EXPOSURE LIMIT SHOULD BE RECOMMENDED FOR MINERAL SPIRITS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:
FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. CONSULT A PHYSICIAN.

SKIN:
WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
MOVING TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION. NOTE: THIS MATERIAL RELEASES ETHYL ALCOHOL UPON HYDROLYSIS. ETHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADCACHE, BLURRED VISION, CONSTRICITED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO. THIS PRODUCT CONTAINS SMALL QUANTITIES OF RESPIRABLE CRYSTALLINE SILICA. PROLONCED / REPEATED INHALATION OF RESPIRABLE CRYSTALLINE SILICA DUST MAY CAUSE DELAYED LUNG INJURY (SILICOSIS) AND INCREASE THE RISKS OF DEVELOPING RESPIRATORY CANCER.

PRECAUTIONARY STATEMENTS: PERSONAL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

SECTION V FIREFIGHTING MEASURES

EXTINGUISH MEDIA: EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. WATER MAY BE USED TO REDUCE THE RATE OF BURNING AND FOR COOLING PURPOSES. AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINERS DUE TO DANGER OF BOIL OVER.

STATIC DISCHARGE: MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. "EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PUNCTURE, CUT, WEAR, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAMES, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONED, OR PROPERLY DISPOSED OF.

GENERAL HAZARD:

UNUSUAL FIRE AND EXPLOSION HAZARD:

PRODUCT WILL BURN IF TEMPERATURE EXCEEDS BOILING POINT. WATER MIX: NO UNUSUAL HAZARDS. VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL ABOUT GROUND OR THROUGH VENTILATION SYSTEM CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. KEEP WORK AREAS FREE OF HOT METAL SURFACES AND OTHER SOURCES OF IGNITION. THE USE OF SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-Demand OR OTHER POSITIVE PRESSURE MODE SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED. STORAGE CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY IN ORDER TO PREVENT PRESSURE BUILD UP. USE WATER SPRAY TO COOL FLORED SURFACES AND TO PROTECT PERSONNEL. ISOLATE "FUEL" SUPPLY FROM FIRE. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: PERSONAL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

Other Handling and Storage Requirements: Store and use in well ventilated area, equivalent to fresh air. Keep containers cool, dry, and away from sources of ignition. Keep container tightly closed, do not store with incompatible materials. Store in accordance with federal, state, and local regulations. Do not store or consume food, drink, or tobacco in area where they may become contaminated with this material. Keep away from high temperatures, open flames, sparks, sources of ignition, etc. Use with explosion proof equipment is highly advisable.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.

RESPIRATORY (SPECIFY IN DETAIL): THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.

EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRITATION OR INJURY.

GLOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.

OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg) RANGE 156-202°C / 313-396°F (Stoddard Solvent)

MELTING/FREEZING POINT: -40°C / -40°F (Stoddard solvent)

VAPOR PRESSURE: 5 mmHg@68°F/25°C (Stoddard solvent)

VAPOR DENSITY (AIR=1): 4.8 (Stoddard solvent)

SOILABILITY IN H2O % BY WT: 100%

% VOLATILES BY VOL: 100%

SPECIFIC GRAVITY (H2O=1): 1.1 (SLOW MINERAL SPIRITS)

PH (AS IS): N/A

PH (1% SOLN): N/A

APPEARANCE AND ODOR: MILKY WHITE EMULSION WITH AROMATIC SOLVENT ODOR (MAY CONTAIN FUGITIVE DYE)

FLASH POINT (TEST METHOD): 38°C / 100°F (TCC) (Stoddard Solvent)

AUTIGNITION TEMP: 232°C / 450°F (STODDARD SOLVENT)

FLAMMABLE LIMITS IN AIR, % BY VOL: LOWER: 0.8% UPPER: 6.0% (STODDARD SOLVENT)
## Section X Stability and Reactivity

<table>
<thead>
<tr>
<th>Conditions Contributing to Instability</th>
<th>Conclusion/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product is stable.</td>
<td></td>
</tr>
</tbody>
</table>

| Incompatibility | This product is incompatible with strong oxidizing agents, strong acids or bases, and selected amines. |

| Hazardous Decomposition Products | Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, and unidentified organics. |

| Conditions Contributing to Hazardous Polymerization | N/A will not occur |

## Section XI Toxicological Information

### Stoddard Solvent

<table>
<thead>
<tr>
<th>Route of Exposure</th>
<th>Toxicity</th>
<th>Conclusion/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>LD50 &gt;5000 mg/kg</td>
<td>Minimally toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td></td>
<td>LD50 &gt;3180 mg/kg</td>
<td>Minimally toxic. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Skin</td>
<td>IRRITATION</td>
<td>May dry the skin leading to discomfort and dermatitis. Based on test data for structurally similar materials.</td>
</tr>
<tr>
<td>Eye</td>
<td>IRRITATION</td>
<td>May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.</td>
</tr>
</tbody>
</table>

**Chronic/Other Effects**

For the product itself: Vapor/aerosol concentrations above recommended exposure levels are irritation to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**Contains:**

- Naphthalene: exposure to high concentrations of Naphthalene may cause destruction of red blood cells, anemia, and catarracts. Naphthalene caused cancer in laboratory animals studies, but the relevance of these findings to human is uncertain. NTP SUS, IARC 2B
- Ethyl benzene: caused cancers in laboratory animals studies, the relevance of these findings to humans is uncertain. IARC 2B

## Section XII Ecological Information

### Stoddard Solvent

This information given is based on data available for the materials, the components of the material and similar materials.

**Eco-toxicity**

- Material: Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Mobility**

- Material: Highly volatile. Will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

**Persistence and Degradability**

- Material: Expected to be inherently biodegradable.

**Biodegradation**

- Material: Transformation due to hydrolysis not expected to be significant.

**Hydrolysis**

- Material: Transformation due to photolysis not expected to be significant.

**Photolysis**

- Material: Transformation to degrade rapidly in air.

## Section XIII Disposal Considerations

**Aquatic Toxicity (e.g. 96 hr. TLM):** Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

**Waste Disposal Method:** If possible, pump to controlled containment area. Absorb on clay or sand. Dispose of in compliance with EPA, federal, state, and local regulations. Treatment, transportation and disposal must be in compliance with EPA, federal, state, and local regulations under the Resources Conservation and Recovery Act (RCRA, 40 CFR 261). Typically controlled burning, incineration or approved land fill sites are available.

## Section XIV Transportation Information

<table>
<thead>
<tr>
<th>Governing Body</th>
<th>Mode</th>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
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<tbody>
<tr>
<td>DOT</td>
<td>GROUND</td>
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<td>NON REGULATED</td>
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<td>IATA</td>
<td>AIR</td>
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<td>IMDG</td>
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<tr>
<td>MARINE POLLUTANT</td>
<td>OCEAN</td>
<td>NON REGULATED</td>
<td>NON REGULATED</td>
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<td>NA</td>
</tr>
</tbody>
</table>

This product does not contain a material on the Marine Pollutants Table (HMT 172.101 Appendix B).
SECTION XV REGULATORY INFORMATION

TSCA: THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER (STODDARD SOLVENT).

CERCLA: IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675.

NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT (STODDARD SOLVENT).

SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: DELAYED HEALTH, FIRE.

ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

FEDERAL / FDA / USDA:

MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).

CALIFORNIA PROP 65: WARNING: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Epichlorohydrin, Ethylbenzene, Crystalline Silica particles of respirable size)

CERCLA / RQ: THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A):

TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES

SECTION XVI OTHER INFORMATION

PREPARED BY: DARRYL MANUEL / PRESIDENT
COMPANY: VEXCON CHEMICALS, INC.
ADDRESS: 7240 STATE RD., PHILA., PA 19135 USA

THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. VEXCON PROVIDES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

HMIS HAZARD RATINGS: THIS INFORMATION IS FOR PEOPLE TRAINED IN:
NATIONAL PAINT AND COATINGS ASSOCIATIONS (NPCA)
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704) IDENTIFICATION OF FIRE HAZARDS OF MATERIALS

<table>
<thead>
<tr>
<th></th>
<th>NPCA-HMIS</th>
<th>NFPA 704</th>
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<tr>
<td>HEALTH</td>
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<td>1</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
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<td>1</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

KEY
4 -- SEVERE
3 -- SERIOUS
2 -- MODERATE
1 -- SLIGHT
0 -- MINIMAL