



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Quick Headlight Clear Coat Wipes, 39173, 39193, 39194, 39195, 39181

#### Product Identification Numbers

60-4550-8702-7

7100140431

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Construction and Home Improvement Markets
<b>ADDRESS:</b>	3M Center, St. Paul, MN 55144-1000, USA
<b>Telephone:</b>	1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
IF exposed or concerned: Get medical advice/attention.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

20% of the mixture consists of ingredients of unknown acute oral toxicity.  
20% of the mixture consists of ingredients of unknown acute dermal toxicity.

### SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	60 - 80 Trade Secret *
Surfactant	Trade Secret*	7 - 13 Trade Secret *
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	1 - 5 Trade Secret *
POLY(METHYL METHACRYLATE)	9011-14-7	1 - 5 Trade Secret *
Acrylate Copolymer	Trade Secret*	1 - 5 Trade Secret *
Proprietary Polymer	Trade Secret*	1 - 5 Trade Secret *
BENZYL BENZOATE	120-51-4	< 2 Trade Secret *
UV Stabilizer A	104810-47-1	< 1 Trade Secret *
UV Stabilizer B	104810-48-2	< 1 Trade Secret *
UV Stabilizer C	41556-26-7	< 0.5 Trade Secret *
UV Stabilizer D	82919-37-7	< 0.2 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching).

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### Hazardous Decomposition or By-Products

**Substance**

Carbon monoxide

Carbon dioxide

Oxides of Nitrogen

**Condition**

During Combustion

During Combustion

During Combustion

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially

available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
DIETHYLENE GLYCOL MONOETHYL ETHER	111-90-0	AIHA	TWA:140 mg/m <sup>3</sup> (25 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

None required.

##### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state

Liquid

Color

Milky White

Specific Physical Form:

Liquid impregnated onto a wipe

Odor

Mild Odor

Odor threshold

*No Data Available*

pH

8.5 - 9.5

Melting point

*No Data Available*

Boiling Point

*No Data Available*

Flash Point

Flash point > 93 °C (200 °F)

Evaporation rate

*No Data Available*

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

*No Data Available*

Flammable Limits(UEL)

*No Data Available*

Vapor Pressure

*No Data Available*

Vapor Density

*No Data Available*

Density

8.4 - 8.8 lb/gal

Specific Gravity

1.03 [Ref Std: WATER=1]

Solubility In Water

*No Data Available*

Solubility- non-water

*No Data Available*

Partition coefficient: n-octanol/ water

*No Data Available*

Autoignition temperature

*No Data Available*

Decomposition temperature

*No Data Available*

Viscosity

<=25 centipoise

Hazardous Air Pollutants

0 % weight

Volatile Organic Compounds

<=48 g/l [Test Method:calculated SCAQMD rule 443.1]

Volatile Organic Compounds

<=0.2 % weight [Test Method:calculated per CARB title 2]

Percent volatile

70 - 80 % weight

VOC Less H2O & Exempt Solvents

<=181 g/l [Test Method:calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Not determined

**10.6. Hazardous decomposition products****Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

**Additional Health Effects:****Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
DIETHYLENE GLYCOL MONOETHYL ETHER	Dermal	Rabbit	LD50 9,143 mg/kg
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	Rat	LD50 5,400 mg/kg
POLY(METHYL METHACRYLATE)	Dermal		LD50 estimated to be > 5,000 mg/kg
POLY(METHYL METHACRYLATE)	Ingestion	Rat	LD50 > 5,000 mg/kg
BENZYL BENZOATE	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
BENZYL BENZOATE	Ingestion	Rat	LD50 > 2,000 mg/kg
UV Stabilizer A	Dermal	Rat	LD50 > 2,000 mg/kg
UV Stabilizer A	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
UV Stabilizer A	Ingestion	Rat	LD50 > 5,000 mg/kg
UV Stabilizer B	Dermal	Rat	LD50 > 2,000 mg/kg
UV Stabilizer B	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
UV Stabilizer B	Ingestion	Rat	LD50 > 5,000 mg/kg
UV Stabilizer C	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
UV Stabilizer C	Ingestion	Rat	LD50 3,125 mg/kg
UV Stabilizer D	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
UV Stabilizer D	Ingestion	Rat	LD50 3,125 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
DIETHYLENE GLYCOL MONOETHYL ETHER	Rabbit	No significant irritation
POLY(METHYL METHACRYLATE)	Rabbit	No significant irritation
BENZYL BENZOATE	Rabbit	Minimal irritation
UV Stabilizer A	Rabbit	No significant irritation
UV Stabilizer B	Rabbit	No significant irritation
UV Stabilizer C	Rabbit	Minimal irritation
UV Stabilizer D	Rabbit	Minimal irritation

### Serious Eye Damage/Irritation

Name	Species	Value
DIETHYLENE GLYCOL MONOETHYL ETHER	Rabbit	Moderate irritant
POLY(METHYL METHACRYLATE)	Rabbit	Mild irritant
BENZYL BENZOATE	Rabbit	No significant irritation
UV Stabilizer A	Rabbit	No significant irritation
UV Stabilizer B	Rabbit	No significant irritation
UV Stabilizer C	Rabbit	Mild irritant
UV Stabilizer D	Rabbit	Mild irritant

### Skin Sensitization

Name	Species	Value
DIETHYLENE GLYCOL MONOETHYL ETHER	Human	Not classified
BENZYL BENZOATE	Human and animal	Not classified
UV Stabilizer A	Guinea	Sensitizing

	pig	
UV Stabilizer B	Guinea pig	Sensitizing
UV Stabilizer C	Guinea pig	Sensitizing
UV Stabilizer D	Guinea pig	Sensitizing

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
DIETHYLENE GLYCOL MONOETHYL ETHER	In Vitro	Not mutagenic
DIETHYLENE GLYCOL MONOETHYL ETHER	In vivo	Not mutagenic
BENZYL BENZOATE	In Vitro	Not mutagenic
UV Stabilizer A	In Vitro	Not mutagenic
UV Stabilizer A	In vivo	Not mutagenic
UV Stabilizer B	In Vitro	Not mutagenic
UV Stabilizer B	In vivo	Not mutagenic
UV Stabilizer C	In vivo	Not mutagenic
UV Stabilizer C	In Vitro	Some positive data exist, but the data are not sufficient for classification
UV Stabilizer D	In vivo	Not mutagenic
UV Stabilizer D	In Vitro	Some positive data exist, but the data are not sufficient for classification

### Carcinogenicity

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
DIETHYLENE GLYCOL MONOETHYL ETHER	Dermal	Not classified for development	Rat	NOAEL 5,500 mg/kg/day	during organogenesis
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	Not classified for development	Mouse	NOAEL 5,500 mg/kg/day	during organogenesis
DIETHYLENE GLYCOL MONOETHYL ETHER	Inhalation	Not classified for development	Rat	NOAEL 0.6 mg/l	during organogenesis
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,200 mg/kg/day	2 generation
BENZYL BENZOATE	Ingestion	Not classified for development	Rat	NOAEL 194 mg/kg/day	during gestation
UV Stabilizer A	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
UV Stabilizer A	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
UV Stabilizer A	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
UV Stabilizer B	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
UV Stabilizer B	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
UV Stabilizer B	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
UV Stabilizer C	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days



UV Stabilizer C	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	prematuring into lactation
UV Stabilizer C	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	prematuring into lactation
UV Stabilizer D	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
UV Stabilizer D	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	prematuring into lactation
UV Stabilizer D	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	prematuring into lactation

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DIETHYLENE GLYCOL MONOETHYL ETHER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
DIETHYLENE GLYCOL MONOETHYL ETHER	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,000 mg/kg/day	12 weeks
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Pig	NOAEL 167 mg/kg/day	90 days
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 2,700 mg/kg/day	90 days
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	endocrine system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
DIETHYLENE GLYCOL MONOETHYL ETHER	Ingestion	heart   hematopoietic system   nervous system	Not classified	Mouse	NOAEL 8,100 mg/kg/day	90 days
BENZYL BENZOATE	Dermal	skin   endocrine system   nervous system   heart   hematopoietic system   liver   immune system   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,250 mg/kg/day	4 weeks
UV Stabilizer A	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	28 days
UV Stabilizer A	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV Stabilizer A	Ingestion	liver	Not classified	Rat	NOAEL 10 mg/kg/day	28 days
UV Stabilizer A	Ingestion	eyes	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV Stabilizer B	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	28 days
UV Stabilizer B	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV Stabilizer B	Ingestion	liver	Not classified	Rat	NOAEL 10 mg/kg/day	28 days
UV Stabilizer B	Ingestion	eyes	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV Stabilizer C	Ingestion	eyes	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 300 mg/kg/day	28 days

			classification			
UV Stabilizer C	Ingestion	gastrointestinal tract   liver   immune system   heart   endocrine system   hematopoietic system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days
UV Stabilizer D	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
UV Stabilizer D	Ingestion	gastrointestinal tract   liver   immune system   heart   endocrine system   hematopoietic system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 days

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

**Physical Hazards**

Not applicable

**Health Hazards**

Reproductive toxicity

Respiratory or Skin Sensitization

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
DIETHYLENE GLYCOL MONOETHYL ETHER (GLYCOL ETHERS)	111-90-0	Trade Secret 1 - 5

**15.2. State Regulations**

Contact 3M for more information.

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information**

**NFPA Hazard Classification**

**Health: 2 Flammability: 1 Instability: 0 Special Hazards: None**

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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