



SAFETY DATA SHEET

Eclipse High Solids Polyurethane Enamel ECL-F-92

Section 1. Identification

GHS product identifier Eclipse High Solids Polyurethane Enamel ECL-F-92

Other means of identification t al uo k al nk z t k z t k e kk

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

k.e .z k k e

Supplier/Manufacturer

z oNb ke b l C akt b l ngs l o k s u r
k l o nk l nC xk nxCO n
l d o C l l s k. k
z
C ark k k k
l ga ku d o nb C x r
e C x gu C l o Nb a b l C arub

Canadian Supplier

z oNb ke b l C akt b l ngs l o k np r
k b b p l ga C k b s o k a p r
s gnk k nb l gu b o C k s ni xgb
t l s l p l k k
k k

Emergency telephone number

t t k k k kkk .s o gp C kn C k
t t k s nC x s l ngb a l akk k k kk d no gp C kn C k ku b aaC u nk u l aac k
l u u C nC p

Date of issue / Date of revision

k l k

Safety Data Sheet Version

r

Date of printing

. k l k

z oNb ke b l C akt b l ngs l o k s u r C a u r k s u b d x l l C o k l a p a C y C unck b d knb k v C l p k l a p k d a p C x c n l a p kn ge k C a ngs C k k l o nk C v C kgs kg b x n l a ngs b x l ngb a k
n x b d l b d nkn C kp b u d C a n r k d x n C x k z oNb ke b l C akt b l ngs l o k s u r C y C unck b d knb k b aab kn C k x C u l d ngb a c k gp C a ng g C p kgs kn go kp b u d C a nkd a d C c k
b d x d c C ku b a p p gngb a c k b d ap ka C u C o g n l nC kb n C x k l x b x g l nC k C n b p k b x k l u ngb a c r
b k x b b nC k l C k l a p a g l k C l u k u d o nb C x b b x k d g C a n k b d ap k e b ng k g n c k C ab C C c k l l C a n o k u b a n k l u n b x c k l a p k n C a c k b k g n k a b c k
b x k l C a g C C e k ga k d e C kn ge k l nC x g l akb kn C kgs b x l n b k u b a n l ga C p kgs kn ge k k l a x k l a k b n d x kgs b x l ngb a k v C l l x p gs l k l N l x p k l a p k e l C n k
d x n ge kn ge k l C kgs b x l ngb a k b k C l u k b k g n c k u d o nb C x c k b x k n C k x b p d u n k k C d C e n k g n c k u d o nb C x c k n b b ng kn C g k C ab C C c k u d o nb C x e
l a p k b n C x d e C x c k b kn C k x b p d u n b kn ge kgs b x l ngb a k l a p k k e b ng k g n c k C ab C C c k l l C a n o k u b a n k l u n b x c k l a p k b n C x c k n k n C k x C u l d ngb a c k
gp C n g g C p k b x k n ge k x b p d u n k l a p k l a k b n C x k x b p d u n b kn ge k gu k g y n d C c k l l C k x C l n C p k l x C k n l a c C x l l a C k l a p k u d d a ng C k n b kn C k g y n d v C r

Section 2. Hazards identification

OSHA/HCS status

ge k l nC x g l akgs ku b a o gp C x C p k l N l x p b d c k l kn C k z k l N l x p k t b d a g u l ngb a k n l a p l x p k
k t k r r

Classification of the substance or mixture

z z k . . k k t l n C l b x k
z t k . . k b x l a k k t l n C l b x k
e k . . z . . e k k t l n C l b x k
k . . z . . e k k t l n C l b x k z
t z t e . . e . . k k t l n C l b x k

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Section 2. Hazards identification

GHS label elements

Hazard pictograms



Signal word

Hazard statements

i s l C x
 g l a k a l i l a C k a g d g p k l s p k l b x r
 i x d a g k o i a a b C p r
 t l d c c k o C x g b d c k C g x x g n l n g b s r
 t l d c c k o g s g x x g n l n g b s r
 d d C u n C p k b k u l d e g s i k u l s u C x r

Precautionary statements

Prevention

i n l g s k o C u g l a g s c n x d u n g b s c k l C b x C k d c C r k k b k s b n k i s p a C k d s n g a k l a a k o l C n k x C u l d n g b s c k l C k
 l C C s k x C l p k l s p k d s p C x c n b b p r k k C l x k x b n C u n g C k l a b C c r k k C l x k C k b x k l C k x b n C u n g b s r
 C l x k x b n C u n g C k u a b n g s l r k k C C k l i k x b k C l n k b n k d x l u C o k o l x o c k b C s k a l C c k l s p k
 b n C x k o s n g b s k o b d x u C o r k e b k o b o g s l k k c C k C y a b o g b s x b b k o a C u n g l a k C a n a l n g s l k a g l n g s l k
 i s p k l a k l i n C x g l a i s p a g s l k C d s C s n r k k c C k b a k s b s l x o g s l k n b b a c r k k o c k x C u l d n g b s l x k
 C l d x C c k l i l g s c n k o n l n g u k p g o u x l C r k k x b d s p l b s p k u b n l g s C x k l s p x C u C g g s l i n C d o C s n r
 C C k u b s n l g s C x k n g l n a k u a b c O p r k b k s b n C i n k p g s o k b x k o b o C k C s k d o g s l k n g o k x b p d u n r
 i c k l i s p c k n b x b d l a k l n C x k l i s p a g s l r

Response

k C y b o C p k b x k u b s u C x s C p k k C n k C p g u l a k l n n C s n g b s r k k k z k k t l a a k l k e k
 t e k b x k c g u g l s k g k b d k C C a k d s C a a r k k g s c C k b d n r k k k e k e k b b x l g x k k l o C k b k
 g C o g l n C a k a a k u b s n l g s l n C p k u a b n g s l r k k g s c C k o g s k g n k l n C x k b x k o b C x r k k k e k e
 i c k g n k a C s n k b k o b l k l s p k i n C x r k k l o C k b k u b s n l g s l n C p k u a b n g s l k l s p k l o k g n l C b x C k
 x C d o C r k k k o o g s g x x g n l n g b s k b u d x o k k C n k C p g u l a k l n n C s n g b s r k k k e k k k g s c C k u l d n g b d o a k
 g n k l n C x k b k k o C C l a k e d n C o r k k C b C k u b s n l u n k a C s c C o k g k x C o C s n l s p k C l o k n b k p b r
 t b s n g s d C k x g s c g s l r k k k o C g x x g n l n g b s k C x c g o n o k k C n k C p g u l a k l n n C s n g b s r

Storage

Disposal

n b x C k a b u o C p k d r k k n b x C k g s k l k C a a C s n g a l n C p k a l u C r k k C C k u b b a r
 g o b o C k b k u b s n C s n o k l s p k u b s n l g s C x k g s k l u u b x p l s u C k g n k l a a k a b u l a x x C l g b s l a k s l n g b s l a k l s p k
 g s n C x l n g b s l a k x C l d a l n g b s o r

Hazards not otherwise classified

: e b s C k o s b s r

Section 3. Composition/information on ingredients

Substance/mixture

g y n d x C

Ingredient name	%	CAS number
C n l s b s C	k k	
i d n l s b s C	k k	
c g a g u b s k p g b y g p C	k k	
i a d g s g d k p x b y g p C	k k	
C a n l s C p g b s C	k k k k	
u l x l b s k l a l u o k x C c g x l i a C k b p C x	k k k k	
b a C s n k s i n l k C n x b a C d k a g l n k l x b r	k k k k	

z s k u b s u C s n x l n g b s k o b s k l o k l k x l s l C k g o k n b k x b n C u n k u b s g p C s n g l a g n k b x k g o k p d C k n b k l i n u k l i x g l n g b s r

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Section 3. Composition/information on ingredients

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 or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Remove contaminated contact lenses, if present and easy to remove. Then rinse immediately with plenty of water for at least 15 minutes. Seek medical attention immediately.

Inhalation

Remove the person to fresh air. If breathing is difficult, provide oxygen. If breathing has stopped, provide artificial respiration. Seek medical attention immediately.

Skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with plenty of water for at least 15 minutes. Seek medical attention immediately.

Ingestion

Do not induce vomiting. Rinse mouth with water. Drink plenty of water. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

Redness, irritation, tearing.

Inhalation

Headache, dizziness, nausea.

Skin contact

Redness, irritation, itching.

Ingestion

Stomach pain, nausea.

Over-exposure signs/symptoms

Eye contact

Redness, irritation, tearing.

Inhalation

Headache, dizziness, nausea.

Skin contact

Redness, irritation, itching.

Ingestion

Stomach pain, nausea.

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Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary**Notes to physician**

x C i n k c n b i l n g u i a a r k k t b a n i u n k b g c b s k n x C i n C s n k c C u g l a g n k g C p g l n C a k g k a l x l C k
d l s n g n g C c l i C k l C C s k g s l C c n C p k b k g s l a C p r

Specific treatments

e b k c C u g g u k n x C i n C s n r

Protection of first-aiders

e b k l u n g b s k c i a a k l C k n l o C s k g s b a g s l k l s k C x c b s l a k x g c o k b x k g n b d n k c d g n l i a C k n x l g s g l r k k n k i k
l C k p l s l C x b d c k n b k n C k C x c b s k x b g p g s l k l g p k n b k l g C k b d n n b b d n k x C c d c u g n l n g b s r

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media**Suitable extinguishing media**

c C k p x k u C g v i a k CO₂, k i n C x k c x l k b l k b x k b l r

Unsuitable extinguishing media

b k s b n k d c C k i n C x k C n r

Specific hazards arising from the chemical

g l a k a l i l a C k a g d g p k l s p k l b x r k k s k l k g x C x b x k g C i n C p k l k x C c d x C k g s u x C i c C k g a a k b u u d x k
l s p k n C k u b s n l g a C x k i k l d x c n k g n k n C k x g c o k b k l k o d l c C d C s n k c y a b c g b s r k k d s b k n b k c C C x k
l k u x C i n C k g x C k b x x C y a b c g b s k l i l i x p r

Hazardous thermal decomposition products

C u b b c g n g b s k x b p d u n c k i k g s u a d p C k n C k b a a b g s l k i n C x g l a c
u l x l b s k g p g y g p C
u l x l b s k b s b y g p C
l a b l C e l n C p k u b b d s p c
C n l a k b y g p C b y g p C

Special protective actions for fire-fighters

x b n a k c b a l n C k n C k u C s C k l k x C b g s l k l a a k C x c b s a c k x b k n C k g u g s g n k b k n C k g s u g p C s n k g k
n C x C g c k l k g x C r k k e b k l u n g b s k c i a a k l C k n l o C s k g s a a g s l k l s k C x c b s l a k x g c o k b x k g n b d n k c d g n l i a C k
n x l g s g l r k k b C k u b s n l g a C x c k x b k g x C k l x C l k g k n g o k u l s k l C p b s C k g n b d n k x g c o r k k c C k i n C x k
c x l n b k o C C k g x C y b c C p k u b s n l g a C x c k u b b a r

Special protective equipment for fire-fighters

g x C g l n C x k c b d a p k C i x k l x b x g l n C k x b n C u n g C k C d s C s n k l s p k c a u b s n l g a C p k l x C i n g s l k
l i l x l n d c k l z k g n k l k d a b l i C g C k b C x l n C p k g s k b c g n g C k x C c d x C k b p C r

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures**For non-emergency personnel**

e b k l u n g b s k c i a a k l C k n l o C s k g s b a g s l k l s k C x c b s l a k x g c o k b x k g n b d n k c d g n l i a C k n x l g s g l r
l u d l n C k c d x x b d s p g s l k l x C l e r k k C C k d s C u C c o l x k l s p k d s x b n C u n C p k C x c b s a C a k x b k
C s n C x g s l r k k b k s b n k n b d u k b x k i a o k n x d l k e g a a C p k i n C x g l a r k k d n k b k l a a k g l s g n g b s k c b d x u C o r
e b k a l x C c k c b o g s l k b x k a l C c k g s k l i l i x p l i C l r k k z b g p k l x C l e g s l k l b k k b x k g o n r k k x b g p C k
l p C d i n C k C s n g a l n g b s r k k C l x k l x b x g l n C k C c g x l n b x k C s k C s n g a l n g s g c k g s l p C d i n C r k k d n k
b s k l x b x g l n C k C x c b s l a k x b n C l g C C d g C n r

For emergency responders

. k c C u g l a g n C p k u a b n g s l k g c k x c d g a C p k n b k p C l a k g n k n C k c g a a l i C k n l o C k s b n C k b k l s k g s b x l n g b s k
g s k C u n g b s k k b s k c d g n l i a C k l s p k d s c d g n l i a C k i n C x g l a c r k k C C k l a c b k n C k g s b x l n g b s k g s k b x s b s
C x l C a u k C x c b s a C a r

Environmental precautions

z b g p k p g c C x c l a k b k c g a a C p k i n C x g l a k l s p k x d s b k l s p k u b s n l u n k g n k c b g a k i n C x l c k p x l g s c k
l s p k c C C x c r k k s b x k n C k x C a C l s n k l d n b x g n g C c k g k n C k x b p d u n k l c k u l d c C p k C s g a b s C s n l a k
b a a d n g b s k c C x c k n C x l c k c b g a b x k l g x r

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Section 6. Accidental release measures

Methods and materials for containment and cleaning up

Small spill

nb kaC i o k g k gn b d n k x g o r k k b C k u b s n i g s C x c k x b k c g a a k i x C i r k k c C k c i x o x b b k n b b a c k i s p k
C y a b c g b s x b b k c d g C s n r k k g a d n C k gn k i n C x k i s p k b k d k g k i n C x c b a i a C r k k z a n C x s i n g C a
b x l g k i n C x g s c b a d i a C k i c b x i k gn k i s k g s C x n k p x k i n C x g i a k s p k a l u C k s k i s k x b x g i n C k i c n C k
p g c b c i a k u s n i g s C x r k k g c b c C k b k g l k i k a g u C s c C p k i n C k p g c b c i a k u b s n x i u n b r

Large spill

nb kaC i o k g k gn b d n k x g o r k k b C k u b s n i g s C x c k x b k c g a a k i x C i r k k c C k c i x o x b b k n b b a c k i s p k
C y a b c g b s x b b k c d g C s n r k k z x b i u k x C a d i c C k x c k d g s p r k k x C C s n C s n x k g s n b k c C C x c
i n C x k u b d n C c k i l c C C s n c k b x k u b s g s C p k i x C i c r k k c k c g a a l i C c k g s n b k i s C a d C s n n x C i n C s n k
a l s n k b x k x e u C C p k i c k b a a b c r k k t b s n i g s k i s p k u b a a C u n k o g a a l i C k gn k s b y u b i d c n g l a C
i c b x i C n x i n C x g i a C i f r k c i s p k c i x n k C x g u d a g n C k b x p g l a e i u C b d c C i x n k i s p k a l u C k g s k
b s n i g s C x k b x k p g c b c i a k i u u b x p g s i k n b k a b u i a k u C i d a l n g b s e k c c C k C u n g b s k r k k g c s e c C k b k g l k i k
g u C s c C p k i n C k p g c b c i a k u b s n x i u n b x r k k t b s n i g s i n C p k i l c b x i C s n k i n C x g i a k i k b c C k n C k
i C k i N i x p k i c n C k c g a a C p k x b p d u n r k k e b n C k c C C k C u n g b s k k b x k C x i C s u k u b s n i u n k
g s b x i n g b s k i s p k C u n g b s k b k k i c n C k p g c b c i a r

Section 7. Handling and storage

Precautions for safe handling

Protective measures

d n k b s k i x b x g i n C k C c b a i a k x b n C u n g C k C d g C a n k c C C k C u n g b s k r k k z b g p k C y b c d x C k
b i n i g s k c C u g l a g s c n x e u n g b s c k i C b x C k d c C r k k b k s b n k i s p a C k d s n g a k i a a k i C n k x C u i d n b s c k i C k
i C C s k x C i g k i s p k d s p c x n b b p r k k b k s b n k i C n k g s k C C c k b x b s k c o g s k b x k u a b n g s i k k b k s b n k g s i C c n r
z b g p k i x c n g s i k i b x b x k g c n r k k c C k b s a k gn k i p C d i n C k C s n g a l n g b s r k k C i x k i x b x g i n C k
x C c g x i n b k s C s k C n g a l n g b s k g c g s i p C d i n C r k k b k s b n k C s n C x k e n b x i l C k i x C i k i s p k u b s g s C p k
o i l u C C k i s a C c e k i p C d i n C a k C s n g a l n C p r k k C C k g s k n C k b x g l g s i a k u b s n i g s C x k x k i s k i x b C p k
i n C x s i n g C k i p C k x k i k u b i n g l a C k i n C x g i a k o C n k n g l n a k u a b c C p k C a k s b n g s e c C r k k n b x C k
i s p k d c C k i k k x b C i n k e i x c k b C a k a l C k b x s k b n C x g l s g n g b s k e b d x u C r k k a C k
C y a b c g b s x b b k C a C u n x g u i a k C s n g a l n g s i k a g l n g i k i s p k i n C x g i a k i s p a g s i k c d g C s n r k k c C k
b s k s b s c i x o g s i k n b b a c r k k o C k x C u i d n g b s i k k C i c d x C k i l i g s c n k C a C u n x b c n i n g u k a g o u i x i C o r
n k u b s n i g s C x c k x C n i g s k x p d u n k x C g p d C k i s p k u i k l C a i N i x p b d c r k k b k s b n k x d c C k u b s n i g s C x r

Advice on general occupational hygiene

i n g s i k p x g s o g s i k i s p k c b o g s i k c b d a p k i C k x b g l g n C p k g s k i x C i c k C x C k n g c k i n C x g i a k g c k
i s p a C p k c n b x C p k i s p k x b u C c C p r k k b x o C x c k c b d a p k i c k i s p c k i s p k i u C k i C b x C k C i n g s i
p x g s o g s i k i s p k c b o g s i f r k k C b C k u b s n i g s i n C p k u a b n g s i k i s p k x b n C u n g C k C d g C s n k i C b x C k
C s n C x g i k C i n g s i k i x C i c r k k C C k i a c b k C u n g b s k k b x k i p p g n g b s i a g s b x i n g b s k b s k i f g C s C k
C i c d x C o r

Conditions for safe storage, including any incompatibilities

n b x C k g s k i u u b x p i s u C k gn k a b u i a k x C i d a l n g b s c r k k n b x C k g s k i k c C i x C i i n C p k i s p k i x b C p k i x C i r
n b x C k g s k b x g l g s i a k u b s n i g s C x k x b n C u n C p k x b k p g s C u n k e d s a g l n g s k i k p x k u b b a k i s p k C a a
C s n g a l n C p k i x C i k i k x b g s u b i n g l a C k i n C x g i a c k c C C k C u n g b s k k i s p k b p k i s p k p x g o r
n b x C k a b u o C p k d r k k a g g s i n C k i a a g l s g n g b s k e b d x u C o r k k C i x i n C k x b k b y g p g n g s i i n C x g i a c r
C C k u b s n i g s C k n g l n a k u a b c C p k i s p o C i a C p k d s n g a k x C i p k b x k d c C r k k t b s n i g s C x e k i a k i C k i C C s k
b C s C p k d c n k i C k u i x C d a a k x C c C i a C k i s p k o C n k d x g l k n b k x C C s n k a C i o i l C r k k b k s b n k o n b x C k g s k
d a l C a C p k u b s n g s C x o r k k c C k i x b i x g i n C k u b n i g s C s n k n b n i b g p k C s g x b s C s n i a k
u s n g s i n g b s i

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
C, ni s b s C	ACGIH TLV (United States, 3/2016). k k z k k l k k b d x e r k k z k k k k b d x e r NIOSH REL (United States, 10/2016). k k z k k l k k b d x e r k k z k k k k b d x e r OSHA PEL (United States, 6/2016). k k z k k l k k b d x e r k k z k k k k b d x e r ACGIH TLV (United States, 3/2016). k k k k l k k g s d n C e r k k k k k k k g s d n C e r k k z k k k k k b d x e r k k z k k k k k b d x e r NIOSH REL (United States, 10/2016). k k k k l k k g s d n C e r k k k k k k k g s d n C e r k k z k k k k k b d x e r k k z k k k k k b d x e r OSHA PEL (United States, 6/2016). k k z k k k k k b d x e r k k z k k k k k b d x e r NIOSH REL (United States, 10/2016). k k z k k l k k b d x e r ACGIH TLV (United States, 3/2016). k k z k k l k k b d x e r k b x k C c g x l i a C k x l u n g b s s g n C p k n i n C e k r k z i c b x l C p k n x b d i k e o g s r k k k z k k k k k b d x e r ACGIH TLV (United States, 3/2016). k k z k k l k k b d x e r k b x k s i a l i a C k x l u n g b s NIOSH REL (United States, 10/2016). k k z k r k l k k b d x e r k k z k r k l k b b a z z c u k k b d x e r OSHA PEL (United States, 6/2016). k k z k r k l k k b d x e r e b s C r
j d n i s b s C	
c g a g u b s k p g b y g p C	
i a d g s g d k p x b y g p C	
C s n i s C p g b s C	
u l x l b s k l a l u o k x C c g x l i a C k b p C x	
b a C s n k s i n i k C n x b a d k a g l n k l x b r	

Appropriate engineering controls

c C k b s a k g n k l p C d i n C k C s n g a l n g b s r k k c C k x b u C c c k C s u a b c d x C c k a b u l a C y i d c n k C s n g a l n g b s k
b x k b n C x k C s i g s C C x g s i k u b s n x b a c k n b k o C C k b o C x k C y b c d x C k n b k l g x l b x s C k u b s n i g s i s n o k l C a b k
i s k x C u b C s p C p k b x k c n i n d n b x k a g g n c r k k C k C s i g s C C x g s i k u b s n x b a c k l a c b k s C C p k n b k o C C k l i c
i b x k b x k p d c n k u b s u C s n x l n g b s c k l C a b k s k a h C x k C a b c g C k a g g n c r k k c C k C y a b c g b s x b b k
C n g a l n g b s k C d g C s n r

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Section 8. Exposure controls/personal protection

Environmental exposure controls

ge c gb s c k x b k C s ngal ngb s kb xk b x k x b u C c c k C d g C s n k e b d ap kl C ku C u e C p k n b k C s d d x C k n C ku b a k gn kn C x C d g x C C s n e k C C s g x b s C ni ak x b n C u n g b s k a C l g e al ngb s r k k s k e b C k u i c c c k d C k e u x d l i C x c k g a n C x c k b x k C s f g s C C x g s l k b p g g u ngb s c k n b k n C k x b u C c c k C d g C s n k g a k l C k s C C c c i x k n b k x C p d u C k C ge c gb s c k n b k l u u C n i a C a C a c r

Individual protection measures

Hygiene measures

i c k i s p c k b x C i x c k i s p k l u C k n b x b d l a k l n C x k i s p a g s l k u C g u l a k x b p d u n e k l C b x C k C i n g s l k e b o g s l k i s p k d c g s l k n C k a l i n b x k i s p k l n k n C k C s p k b k n C k b x o g s l k C x g b p r z x b x g l n C k n C u s g d C c k e b d ap kl C k d e C p k n b k x C b C k b n C s n g l a a k u b s n l g l i n C p k u a b n g s l r i c k u b s n l g s l n C p k u a b n g s l k i C b x C k x C d g s l r k k s c d C k n i n C C i c k o n ngb s c k i s p k o l C n k c b C x c k i x C k u a b c C k n b k n C k b x o c n l ngb s k a b u l i n g b s r

Eye/face protection

i C n k C C C i x k u b a g s l k gn k l s k l x b C p k e n i s p l x p k e b d ap kl C k d e C p k C s k l k x g c o k i c c C c c C s n k g s p g u l n C k n g e k g c k s C u C c c k n b k l b g p k C y b d x C k n b k a g d g p k e a l e C e k g e n e i l e C c k b x k p d e n e r k k u b s n l u n k g c k b c e g l a c k n C k b a a b g s l n x b n C u n g b s k e b d a k l C k b x s k d s a C c c k n C k i c c C c c C s n k g s p g u l n C c k i k g l C x k p C x C k b k x b n C u g b s k k u C g u l a k a l e k l b i l a C c r

Skin protection

Hand protection

i C g u l a x C c g o n i a n k g C x g b d c k l a b C c k u b a g s l k gn k l s k l x b C p k e n i s p l x p k e b d ap kl C k b x s k l n k l a a k n g C c k C s i s p a g s l k u C g u l a k b p d u n e k g k l k x g c o k b o c C c c C s n k g s p g u l n C c k n g e k g c k s C u C c c i x r k k l b s c g p C x g l k n C k l i x l C n C x c k c C u g g C p k l k n C k l a b C k i s d i u n d x C k u C u e k p d x g l k d e C k n i n k n C k l a b C c k l x k e n g a a k x C n i g s g s n C g a k x b n C u n g C x b C x n g C c r k k n k e b d ap kl C k s b n C p k n i n k n C k n g C k n b k l x C i o n x b d l k b x k l s k l a b C i n C x g l a k l C k p g C x C s n k b x k p g C x C s n k l a b C k i s d i u n d x C x c r k k s k n C k l i c C k b k g y n d C c k u b s c g c n g s l k b e C C x i a k o d l c n i s u C c k n C k x b n C u n g b s k n g C k b k n C k l a b C c k l i s s b n k l C k l u d x l n C a k C c n g i n C e r

Body protection

C x c b s l a k x b n C u n g C a C d g C s n k b x k n C k l b p k e b d ap kl C k e C a C u n C p k l i e C p k b s k n C k e l c e k l C g s l k C x b x C p k l s p k n C k x g c o c k s b a C p k l s p k e b d ap kl C k l x b C p k l k l k e C u g l a g e n k l C b x C k i s p a g s l k n g e k x b p d u n r k k C s k n C x C k g c k l k x g c o k b k g l s g g s a k x b k e n i n g u a C u n x g u g n k C i x k l s n g n l n g u k x b n C u n g C k u a b n g s l r k k b x k n C k l x C i n C c n k x b n C u n g b s k x b k e n i n g u k s g e u i x l C e k u a b n g s l k b d a p k g s u a d p c k l s n g c n i n g u k b C x l a a c k l b b n c k l s p k l a b C c r

Other skin protection

z x b x g l n C k b b n C i x k l s p k l s k l p p g e g b s l a k c o g s k x b n C u n g b s k C i c d x C c k e b d ap kl C k e C a C u n C p k l i e C p k b s k n C k e l c e k l C g s l k C x b x C p k l s p k n C k x g c o c k s b a C p k l s p k e b d ap kl C k l x b C p k l k l k C u g l a g e n k l C b x C k i s p a g s l k n g e k x b p d u n r

Respiratory protection

i e C p k b s k n C k i N i x p k l s p k b n C s n g l a k b x k y b d x C k e C a C u n k l k x C e g x l n b x k n i n k C C n e k n C k i x b x g l n C k e n i s p l x p k b x k u C x n g u l i n g b s r k k C e g x l n b x c k d e n k l C k d e C p k l u u b x p g s l k n b k l k x C c g x l n b x k x b n C u n g b s k x b l k l k n b k C s c d x C k l x b C x k g n g s l k n x l g s g s k i s p k b n C x k g b x n l s n k i e C u n c k b k e C c r

Section 9. Physical and chemical properties

Appearance

Physical state

g d g p r

Color

a l u o r

Odor

b a C s n r

Odor threshold

e b n k l i g a l i a C r

pH

e b n k l i g a l i a C r

Melting/freezing point

e b n k l i g a l i a C r

Boiling point

t k

boiling range

e b n k l i g a l i a C r

Flash point

t a b c C p k u d k t k r

Evaporation rate

e b n k l i g a l i a C r

Section 9. Physical and chemical properties

Flammability (solid, gas)

e b nkl i gal i aC r

Upper/lower flammability or explosive limits

Upper: : e b nkp C nC x gs C p r

Lower: : e b nkp C nC x gs C p r

Vapor pressure

e b nkl i gal i aC r

Vapor density

e b nkl i gal i aC r

Relative density

r

Density

r al c l i a r kt u

Solubility

e b nkl i gal i aC r

Solubility in water

e b nkl i gal i aC r

Partition coefficient: n-octanol/water

e b nkl i gal i aC r

Auto-ignition temperature

e b nkl i gal i aC r

Decomposition temperature

e b nkl i gal i aC r

Viscosity

gs C i ngu k xb b k nC C xi nd xC k r ku ck ku n

Weight Volatiles

: r k

Volume Volatiles

: r

Weight Solids

: r

Volume Solids

: r

Regulatory VOC

r al c l i a l a gs d ck i nC xli s p kC yC nke b a C a nc

VOC Actual

r al c l i a l a

Section 10. Stability and reactivity

Reactivity

e b kc C u g gu k nC c nkp i ni kxC al nC p knb kxC i u ng gn ki i gal i aC k b xkn gc k xb p d u nkb xkgnc kgs i xC p gC s nc r

Chemical stability

C k xb p d u nkgc k nkl i aC r

Possibility of hazardous reactions

s p C xks b x i aku b s p gngb s c kb kcnb xli i C k l s p kd cC k i Ni xp b d c kxC i u ngb s ck gaaks b nkb u u d xr

Conditions to avoid

: z b gp kl aak b c cgl aC kc b d xu C c kb kgl s gngb s k c i xokb xk al C rkk b ks b nk xC c c d xgN C ku d nk C ap
l xi N C kc b p C x kp xgaa kl xga p kb xkC y b c C ku b s i gs C x c knb k C i nkb xkc b d xu c kb kgl s gngb s r

Incompatible materials

C i u ng C kb xkgs u b i ngl aC k gn kn C k b aab gs l k i nC xgl ac
b y gp gN gs l k i nC xgl ac

Hazardous decomposition products

s p C xks b x i aku b s p gngb s c kb kcnb xli i C k l s p kd cC k i Ni xp b d c kC u b b c gngb s k xb p d u nkc b d ap k
s b nkl C k xb p d u C p r

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
C n l s b s C	k x l a	i n	k l o l	
I d n l s b s C	k C x i a	i l l g n	k l o l	
C s n l s C p g b s C	k x l a	i n	k l o l	
u l x l b s k l a l u o k x C c g x l i a C k	k x l a	i n	k l o l	
b p C x	k x l a	i n	k l o l	
b a C s n k s i n i k C n x b a C d	k x l a	i n	k l o l	
g l n k l x b r				

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
C n l s b s C	o g s k k g a p k g x x g n l s n	i l l g n		k b d x c k k	
I d n l s b s C	o g s k k g a p k g x x g n l s n	i l l g n		g a a g l x l c	
	o g s k k b p C x l n C k g x x g n l s n	i l l g n		k b d x c k k	
o g a g u b s k p g b y g p C	C c k k g a p k g x x g n l s n	i l l g n		g a a g l x l c	
C s n l s C p g b s C	C c k k C C x C k g x x g n l s n	i l l g n		k b d x c k k	
	o g s k k g a p k g x x g n l s n	i l l g n		g a a g l x l c	
	o g s k k g a p k g x x g n l s n	i l l g n		k g a a g l x l c	
	o g s k k g a p k g x x g n l s n	i l l g n		k	
	o g s k k b p C x l n C k g x x g n l s n	i l l g n		g a a g l x l c	
	o g s k k b p C x l n C k g x x g n l s n	i l l g n		k b d x c k r k	
	o g s k k b p C x l n C k g x x g n l s n	i l l g n		g a g a g n C x c k	
	C c k k g a p k g x x g n l s n	i l l g n		s n C x g n n C s n	
				k b d x c k r	
				k g a g a g n C x c k	
				s n C x g n n C s n	
				k b d x c k r k	
				g a g a g n C x c k	
				s n C x g n n C s n	
				k b d x c k k	
				g u x b a g n C x c	

Sensitization

e b n k l i g a l i a C r

Mutagenicity

e b n k l i g a l i a C r

Carcinogenicity

e b n k l i g a l i a C r

Classification

Product/ingredient name	OSHA	IARC	NTP
o g a g u b s k p g b y g p C			
u l x l b s k l a l u o k x C c g x l i a C k			
b p C x			

Section 11. Toxicological information

Reproductive toxicity

e b nkl i gal i aC r

Teratogenicity

e b nkl i gal i aC r

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
b a C s nks i n i k C nxb aC d kagl nkl xb r	t i nC i b x k	e b nkl i gal i i aC r	C c gxi nb x knxl u nk gx xgni ngb s kl s p k e l x b ngu xC C u nc

Specific target organ toxicity (repeated exposure)

e b nkl i gal i aC r

Aspiration hazard

Name	Result
b a C s nks i n i k C nxb aC d kagl nkl xb r	z . z . e k z z k kl i nC i b x k

Information on the likely routes of exposure

e b nkl i gal i aC r

Potential acute health effects

Eye contact

t i d eC c kC xgb d e kC C kgxxgni ngb s r

Inhalation

e b kox b s kC gl s g gu i s nkC C u nc kb xku xngui ak i Ni xp c r

Skin contact

: t i d eC c kC o gs kgxxgni ngb s r

Ingestion

: i x d ak g kC i aab C p r

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

z p C xC kC nb c k i kgs u ad p C kn C k b aab gs i
i gs kb xkgxxgni ngb s
i nC xgs i
C p s C c c

Inhalation

e b kC C u g gu kp i ni r

Skin contact

z p C xC kC nb c k i kgs u ad p C kn C k b aab gs i
gx xgni ngb s
xC p s C c c

Ingestion

: e b kC C u g gu kp i ni r

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

Short term exposure

Potential immediate effects

e b nkl i gal i aC r

Potential delayed effects

e b nkl i gal i aC r

Long term exposure

Section 11. Toxicological information

Potential immediate effects

e b nkl i gal i aC r

Potential delayed effects

e b nkl i gal i aC r

Potential chronic health effects

e b nkl i gal i aC r

General

e b kos b s ko gl s g gu i s nkC C unc kb xku xngui ak i Ni xp c r

Carcinogenicity

d c C unc p kb k u i d c g i k u i s u C x r k k g c o k b k u i s u C x k p C C a p c k b s k p d x i n g b s k i s p k a C C a k b k C y i c d x C r

Mutagenicity

e b kos b s ko gl s g gu i s nkC C unc kb xku xngui ak i Ni xp c r

Teratogenicity

e b kos b s ko gl s g gu i s nkC C unc kb xku xngui ak i Ni xp c r

Developmental effects

e b kos b s ko gl s g gu i s nkC C unc kb xku xngui ak i Ni xp c r

Fertility effects

e b kos b s ko gl s g gu i s nkC C unc kb xku xngui ak i Ni xp c r

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
x i a	r k i o i

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
C n i s b s C	z u d n c k t k k n b k k i a k	g c k k g C i a C c k b C a l c	k b d x c
	x C c k i n C x		
I d n i s b s C	z u d n c k t k k i a k i x g C k i n C x	r a l i C k k o C a C n b s C i k u b c n i n d	k b d x c
	z u d n c k t k k n b k k i a k	i s g l k k i s g l k i l s i k	k b d x c
	x C c k i n C x	i x i C	
	z u d n c k t k k x C c k i n C x	g c k k i i d c g l k i g s g c k k z p d a n	k b d x c
C a n i s C p g b s C	z u d n c k t k k i a k x C c k i n C x	t x d c n i u C i s c k k t C x g b p i s g l k	k b d x c
		x C n g u d a l n i k k i x i C	
	z u d n c k t k k i a k x C c k i n C x	i s g l k k i s g l k i l s i k	k b d x c
		e C s i n C	
	z u d n c k t k k i a k x C c k i n C x	g c k k C b g c k i u x b u g d d c	k b d x c
u l x i b s k l a l u o k x C c g x i l a C k	z u d n c k t k r k i a k x C c k i n C x	i s g l k k i s g l k i l s i k	k b d x c
e b p C x		e C s i n C	

Persistence and degradability

e b nkl i gal i aC r

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
C ₁ n ₁ s ₁ b ₁ s ₁ C ₁ I d n ₁ s ₁ b ₁ s ₁ C ₁ C ₁ s ₁ n ₁ s ₁ C ₁ p ₁ g ₁ b ₁ s ₁ C ₁ b ₁ a ₁ C ₁ s ₁ n ₁ k ₁ s ₁ i ₁ n ₁ i ₁ k ₁ C ₁ n ₁ x ₁ b ₁ a ₁ C ₁ d ₁ a ₁ g ₁ l ₁ n ₁ k ₁ i ₁ x ₁ b ₁ r ₁	r ₁ r ₁ r ₁	k ₁ n ₁ b ₁ k ₁	ab ab ab gl

Mobility in soil

Soil/water partition
coefficient (K_{oc})

e₁ b₁ n₁ k₁ i₁ g₁ a₁ l₁ a₁ C₁ r₁

Other adverse effects

e₁ b₁ k₁ o₁ s₁ b₁ s₁ a₁ k₁ o₁ g₁ l₁ a₁ g₁ g₁ u₁ i₁ s₁ n₁ k₁ C₁ u₁ n₁ c₁ k₁ b₁ x₁ k₁ u₁ x₁ g₁ n₁ g₁ u₁ i₁ a₁ k₁ i₁ N₁ i₁ x₁ p₁ c₁ r₁

Section 13. Disposal considerations

Disposal methods

C₁ k₁ i₁ C₁ s₁ C₁ x₁ l₁ n₁ g₁ b₁ s₁ k₁ b₁ k₁ i₁ c₁ n₁ C₁ k₁ o₁ b₁ d₁ a₁ p₁ k₁ i₁ C₁ k₁ i₁ b₁ g₁ p₁ C₁ p₁ k₁ b₁ x₁ k₁ g₁ s₁ g₁ g₁ N₁ C₁ p₁ k₁ C₁ x₁ C₁ x₁ k₁ b₁ c₁ c₁ g₁ l₁ a₁ C₁ r₁ k₁ k₁ g₁ o₁ b₁ o₁ i₁ a₁ k₁
b₁ k₁ n₁ g₁ c₁ k₁ x₁ b₁ p₁ d₁ u₁ n₁ c₁ k₁ b₁ a₁ d₁ n₁ g₁ b₁ s₁ c₁ k₁ i₁ s₁ p₁ k₁ i₁ s₁ k₁ i₁ x₁ b₁ p₁ d₁ u₁ n₁ c₁ k₁ o₁ b₁ d₁ a₁ p₁ k₁ i₁ n₁ k₁ i₁ a₁ a₁ k₁ g₁ n₁ k₁ n₁ C₁ k₁
x₁ C₁ d₁ g₁ x₁ C₁ s₁ n₁ c₁ k₁ b₁ k₁ C₁ s₁ g₁ x₁ b₁ s₁ C₁ s₁ n₁ i₁ a₁ k₁ x₁ b₁ n₁ C₁ u₁ n₁ g₁ b₁ s₁ k₁ i₁ s₁ p₁ k₁ i₁ c₁ n₁ C₁ k₁ p₁ g₁ o₁ b₁ o₁ i₁ a₁ k₁ a₁ C₁ l₁ g₁ o₁ a₁ l₁ n₁ g₁ b₁ s₁ k₁ i₁ s₁ p₁ k₁ i₁ s₁ k₁
x₁ C₁ l₁ g₁ b₁ s₁ i₁ a₁ k₁ a₁ b₁ u₁ i₁ a₁ k₁ i₁ d₁ n₁ b₁ x₁ g₁ n₁ k₁ x₁ C₁ d₁ g₁ x₁ C₁ a₁ n₁ e₁ r₁ k₁ k₁ g₁ o₁ b₁ o₁ i₁ a₁ C₁ k₁ b₁ k₁ e₁ d₁ x₁ a₁ d₁ o₁ k₁ i₁ s₁ p₁ k₁ a₁ b₁ s₁ x₁ b₁ u₁ a₁ l₁ a₁ C₁ k₁ x₁ b₁ s₁ d₁ u₁ n₁ c₁ k₁
g₁ l₁ k₁ i₁ k₁ a₁ g₁ C₁ s₁ o₁ C₁ p₁ k₁ i₁ c₁ n₁ C₁ k₁ p₁ g₁ o₁ b₁ o₁ i₁ a₁ k₁ u₁ s₁ n₁ k₁ i₁ u₁ n₁ b₁ x₁ r₁ k₁ k₁ i₁ c₁ n₁ C₁ k₁ o₁ b₁ a₁ p₁ s₁ b₁ n₁ k₁ i₁ C₁ k₁ p₁ g₁ o₁ b₁ o₁ i₁ a₁ C₁ p₁ k₁ b₁ k₁ d₁ s₁ n₁ x₁ C₁ i₁ n₁ C₁ p₁ k₁ n₁ b₁ k₁
n₁ C₁ k₁ o₁ C₁ C₁ x₁ k₁ d₁ a₁ C₁ c₁ k₁ d₁ a₁ a₁ k₁ u₁ b₁ a₁ g₁ l₁ s₁ k₁ g₁ n₁ k₁ n₁ C₁ k₁ x₁ C₁ d₁ g₁ x₁ C₁ a₁ n₁ o₁ k₁ b₁ k₁ i₁ a₁ a₁ k₁ i₁ d₁ n₁ b₁ x₁ g₁ n₁ C₁ o₁ k₁ g₁ n₁ k₁ d₁ g₁ o₁ p₁ g₁ u₁ n₁ g₁ b₁ s₁ r₁
i₁ c₁ n₁ C₁ k₁ i₁ u₁ o₁ i₁ l₁ g₁ s₁ i₁ k₁ o₁ b₁ d₁ a₁ p₁ k₁ i₁ C₁ k₁ x₁ C₁ u₁ u₁ a₁ C₁ p₁ r₁ k₁ k₁ s₁ u₁ g₁ s₁ C₁ x₁ l₁ n₁ g₁ b₁ s₁ k₁ b₁ a₁ l₁ p₁ g₁ a₁ k₁ o₁ b₁ d₁ a₁ k₁ b₁ s₁ a₁ k₁ i₁ C₁ k₁ u₁ s₁ c₁ g₁ p₁ C₁ x₁ C₁ p₁ k₁
C₁ s₁ k₁ x₁ C₁ u₁ u₁ a₁ g₁ l₁ k₁ g₁ o₁ k₁ s₁ b₁ n₁ k₁ C₁ i₁ o₁ g₁ l₁ a₁ C₁ r₁ k₁ k₁ g₁ o₁ k₁ i₁ n₁ C₁ g₁ l₁ a₁ k₁ i₁ s₁ p₁ k₁ g₁ n₁ c₁ k₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ k₁ d₁ e₁ n₁ k₁ i₁ C₁ k₁ p₁ g₁ o₁ b₁ o₁ i₁ a₁ C₁ p₁ k₁ b₁ k₁ g₁ s₁ k₁ i₁ k₁
o₁ i₁ C₁ k₁ i₁ r₁ k₁ k₁ i₁ x₁ C₁ k₁ o₁ b₁ d₁ a₁ p₁ k₁ i₁ C₁ k₁ n₁ i₁ o₁ C₁ a₁ k₁ C₁ a₁ k₁ i₁ s₁ p₁ a₁ g₁ i₁ k₁ o₁ n₁ g₁ C₁ p₁ k₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ k₁ n₁ i₁ n₁ k₁ i₁ C₁ s₁ b₁ n₁ k₁ i₁ C₁ s₁ k₁
u₁ a₁ C₁ i₁ s₁ C₁ p₁ k₁ b₁ x₁ k₁ g₁ s₁ o₁ C₁ p₁ k₁ b₁ d₁ n₁ r₁ k₁ k₁ n₁ k₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ o₁ k₁ b₁ x₁ k₁ a₁ g₁ s₁ C₁ x₁ e₁ k₁ k₁ x₁ b₁ p₁ d₁ e₁ n₁ k₁ x₁ C₁ o₁ g₁ p₁ d₁ C₁ e₁ r₁
i₁ b₁ x₁ k₁ b₁ k₁ x₁ b₁ p₁ d₁ u₁ n₁ k₁ x₁ C₁ o₁ g₁ p₁ d₁ o₁ k₁ i₁ k₁ u₁ x₁ C₁ i₁ n₁ C₁ k₁ k₁ g₁ l₁ a₁ k₁ a₁ l₁ i₁ l₁ a₁ C₁ k₁ b₁ x₁ k₁ y₁ a₁ b₁ o₁ g₁ C₁ k₁ i₁ n₁ b₁ e₁ o₁ x₁ C₁ k₁
g₁ s₁ o₁ p₁ C₁ k₁ n₁ C₁ k₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ r₁ k₁ k₁ b₁ k₁ s₁ n₁ k₁ u₁ d₁ n₁ k₁ C₁ a₁ p₁ k₁ b₁ x₁ k₁ i₁ x₁ g₁ s₁ p₁ k₁ d₁ o₁ C₁ p₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ o₁ k₁ d₁ a₁ C₁ o₁ e₁ c₁ k₁ n₁ C₁ k₁ i₁ l₁ a₁ k₁ i₁ C₁ s₁ k₁
u₁ a₁ C₁ s₁ C₁ p₁ k₁ n₁ b₁ b₁ o₁ d₁ i₁ a₁ k₁ g₁ s₁ n₁ C₁ x₁ s₁ i₁ a₁ r₁ k₁ k₁ z₁ b₁ g₁ p₁ k₁ p₁ g₁ o₁ C₁ x₁ e₁ l₁ a₁ k₁ b₁ k₁ o₁ a₁ a₁ C₁ p₁ k₁ i₁ n₁ C₁ x₁ g₁ l₁ a₁ k₁ i₁ s₁ p₁ k₁ d₁ s₁ b₁ k₁ i₁ s₁ p₁ u₁ b₁ s₁ n₁ u₁ n₁ k₁
g₁ n₁ k₁ o₁ b₁ g₁ a₁ k₁ i₁ n₁ C₁ x₁ i₁ c₁ k₁ p₁ x₁ i₁ g₁ s₁ d₁ k₁ i₁ s₁ p₁ k₁ o₁ C₁ x₁ o₁ r₁

Section 14. Transport information

Special precautions for user

a₁ C₁ i₁ c₁ C₁ k₁ e₁ b₁ n₁ o₁ k₁ C₁ k₁ g₁ s₁ b₁ x₁ i₁ n₁ g₁ b₁ s₁ k₁ x₁ b₁ p₁ k₁ g₁ s₁ k₁ o₁ C₁ u₁ n₁ g₁ b₁ s₁ k₁ k₁ g₁ o₁ k₁ i₁ c₁ C₁ p₁ k₁ b₁ s₁ k₁ i₁ k₁ d₁ a₁ o₁ k₁ i₁ u₁ o₁ i₁ l₁ C₁ k₁
o₁ g₁ C₁ s₁ n₁ k₁ g₁ l₁ k₁ i₁ x₁ b₁ d₁ s₁ p₁ k₁ n₁ i₁ s₁ o₁ b₁ x₁ n₁ g₁ s₁ k₁ e₁ b₁ x₁ n₁ k₁ z₁ C₁ x₁ g₁ u₁ i₁ r₁ k₁ k₁ z₁ a₁ a₁ k₁ o₁ g₁ C₁ x₁ o₁ k₁ i₁ x₁ C₁ k₁ x₁ C₁ o₁ b₁ s₁ o₁ g₁ l₁ a₁ C₁ k₁ b₁ x₁ k₁
C₁ s₁ o₁ d₁ x₁ g₁ s₁ i₁ k₁ n₁ C₁ k₁ x₁ b₁ C₁ x₁ k₁ n₁ x₁ i₁ s₁ o₁ b₁ x₁ n₁ i₁ n₁ g₁ b₁ s₁ k₁ u₁ a₁ l₁ c₁ o₁ g₁ u₁ i₁ n₁ g₁ b₁ s₁ k₁ i₁ s₁ p₁ k₁ i₁ l₁ a₁ k₁ i₁ l₁ C₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ k₁ x₁ C₁ d₁ g₁ x₁ C₁ a₁ s₁ n₁ o₁ k₁
i₁ x₁ C₁ k₁ b₁ a₁ a₁ b₁ C₁ p₁ k₁ b₁ x₁ k₁ s₁ C₁ k₁ x₁ C₁ a₁ C₁ i₁ l₁ n₁ k₁ b₁ p₁ C₁ k₁ b₁ k₁ n₁ x₁ i₁ s₁ o₁ b₁ x₁ n₁ r₁

Transport within user's premises:

a₁ i₁ c₁ k₁ n₁ x₁ i₁ s₁ o₁ b₁ x₁ n₁ g₁ s₁ k₁ u₁ a₁ b₁ o₁ C₁ p₁ k₁ u₁ b₁ s₁ n₁ i₁ g₁ s₁ C₁ x₁ e₁ k₁ n₁ i₁ n₁ k₁ i₁ x₁ C₁ k₁
d₁ x₁ g₁ l₁ n₁ k₁ i₁ s₁ p₁ k₁ o₁ C₁ u₁ d₁ x₁ C₁ r₁ k₁ s₁ o₁ d₁ x₁ C₁ k₁ n₁ i₁ n₁ k₁ C₁ x₁ o₁ b₁ s₁ o₁ c₁ k₁ n₁ x₁ i₁ s₁ o₁ b₁ x₁ n₁ g₁ s₁ i₁ k₁ n₁ C₁ k₁ x₁ b₁ p₁ d₁ u₁ n₁ k₁ o₁ s₁ b₁ k₁ i₁ n₁ k₁ n₁ b₁ k₁ p₁ b₁ k₁ g₁ s₁ k₁ n₁ C₁ k₁
C₁ C₁ s₁ n₁ b₁ k₁ i₁ s₁ k₁ i₁ u₁ u₁ g₁ p₁ C₁ s₁ n₁ k₁ b₁ x₁ k₁ o₁ g₁ a₁ l₁ i₁ C₁ r<

Section 14. Transport information

Transport hazard class(es)					
Packing group	III	III	III	III	III
Environmental hazards	e b r	e b r	e b r	e b r	e b r

Eclipse High Solids Polyurethane Enamel ECL-F-92

11 C K

Section 15. Regulatory information

Philippines

z aaku b , b s C s n c k l x C k a g e n C p k b x k C y C , n C p r

Republic of Korea

z aaku b , b s C s n c k l x C k a g e n C p k b x k C y C , n C p r

Taiwan

z aaku b , b s C s n c k l x C k a g e n C p k b x k C y C , n C p r

Turkey

z n k a C l i c n k b s C k u b , b s C s n k g c k s b n k a g e n C p r

Section 16. Other information

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

Health	
Flammability	
Physical hazards	

t l d n g b s k , k x l n g s l c k l x C k l i c C p k b s k l k , k x l n g s l k c u l a C k g n k k x C x C e C s n g s l k g s g i a k i N i x p c k b x x g o o c k l s p k k
x C x C e C s n g s l k e g l s g u l s n k i N i x p c k b x x g o o c r k z a n b d l k , k x l n g s l c l i s p k n C k l c c b u g l n C p k a l i C a k l x C k s b n k x C d g x C p k b s k c k b x k
x p d u n c k a C l g s l k l i u g a n k d s p C x k k t k r k n C k x C l i x C x l i k u b b e C k n b k x b g p C k n C r k , k x l n g s l c k l x C k n b k l C k
l c C p k g n k l k d a a k g a C C s n C p k , k x b l x l r k , k g k l k C l g o n C p k n x l p C l x o k s p k e C x g u C k l x o k b k n C k z C x g u l s k
b l n g s l c k z c c b u g l n g s k s u r
C k u d c n b C x k g c k x C e b s e g l a C k b x k p C n C x g s g l k n C k k u b p C k b x k n g c k i n C x g l a r k b x k b x C k g s b x i n g b s k b s k , k C x e b s i a k
x b n C u n g C k d g C n k k u b p C c k u b s c d a n k n C k , k , a C C s n l n g b s k l s d i a r

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



C x g s n C p k g n k C x g o c g b s k x b k e z k k p C s n g u l n g b s k b k n C k i N i x p c k b k i n C u g l a c k b x k C x l C s u k C e b s e C k
t b x g l n k k e l n g b s l a k g x C k x b n C u n g b s k z c c b u g l n g b s k d g s u k z k r k g c k x C x g s n C p k i n C x g l a k g c k s b n k n C k u b a C n C k
l s p k b g u g l a k b c n g b s k b k n C k e l n g b s l a k g x C k x b n C u n g b s k z c c b u g l n g b s k b s k n C k x C C x C s u C p k e d i C u n k g u k g o k x C x C e C s n C p k b a k l k
n C e n l s p l x k g s g n c k C s n g x C n r
t b x g l n k k e l n g b s l a k g x C k x b n C u n g b s k z c c b u g l n g b s k d g s u k z k r k g c k l x s g l k e c n C k g o k g s n C s p C p k n b k l C k
g s n C x x C n C p k l s p k l a g C p k b s a k l k x b C x a k n x l g s C p k g s p g g p d i a c k n b k g p C s n g k g x C k C l a n k l s p k x C l u n g n k i N i x p c k b k u C g u l a c r
c k d c C x k g k x C C x x C k n b k u C x n l g s k a g g n C p k s d l C x k b k u C g u l a c k g n k x C u b C s p C p k u a l c e g g u l n g b s c k g s k e z k k l s p k e z k
g u k b d a p k l C k d e C p k l c k l d g p C a g e C k b s a r k C n C x k n C k u C g u l a c k l x C k u a l c e g g C p k l k e z k b x k a b n k l s b s C k d c g s l k n C k k
c c n C c k n b k u a l c e g k u C g u l a c k p C C e k e b k l n k n C g x k b s k x g o o r

History

Date of issue/Date of revision

k i k

Version

r

MSDS #

t t

Key to abbreviations

z k k z u d n C k b y g u g n k o n g i n C
t k k g b u b s u C s n x l n g b s k l u n b x
k k a b l i a a k l x b s g h C p k c n C k b k t a l c e g g u l n g b s k l s p k l i C a a g s l k b k t C g u l a c
z z k k s n C x s l n g b s l a k z g x k x l s e b x n k z c c b u g l n g b s
t k k k s n C x C p g l n C k d a o k l b s n l g s C x
k k s n C x s l n g b s l a k l x n g C k l s l C x b d c k b b p e
b l b k k a b l i x g n k b k n C k b u n s b a i n C x k l x n g n g b s k u b C g u g C s n

Section 16. Other information

z k k s n C x s i n g b s i a k l b s C s n g b s k b x k n C k x C C s n g b s k b k b a a d n g b s k x b k g d k k l d k
b p g C p k l k n C k x b n b u b a k b k r k i x b a k k i x g s C k b a a d n g b s
e k k s g n C p k e i n g b s c

Notice to reader

b k n C k l C e n k b k b d x k o s b a C p l C k n C k g s b x i n g b s k u b s n l g s C p k C x C g s k g c k l u u d x i n C r k b C C x k s C g n C x k n C k l i b C s i C p k e d a g C x
s b x k l s k b k g n c k e d i c g p g l x g C c k l e c d C c k l s k a g l i g a g n k i n o b C C x k b x k n C k l u u d x i u k b x k u b a C n C s C e c k b k n C k g s b x i n g b s k
u b s n l g s C p k C x C g s r
g s i a k p C n C x g s i n g b s k b k e d g n l i g a g n k b k l s k i n C x g l a k g c k n C k e b a C k x C c b s c g l g a g n k b k n C k d e C x r k z a a k i n C x g l a c k i k x C c C s n k d s o a b s k
i N i x p c k l s p k c b d a p k l C k d c C p k g n k u l d n g b s r k z a n b d l k u C x n l g s k i N i x p c k l x C k p C c u x g l C p k C x C g s k C k u l s s b n k l d i x l s n C C k n i n
n C c C k l x C k n C k b s a k i N i x p c k n i n C y g c n r

SAFETY DATA SHEET

Eclipse High Solids Polyurethane Enamel PC-233

Section 1. Identification

GHS product identifier : Eclipse High Solids Polyurethane Enamel PC-233
Other means of identification : PC-233_Curing Solution

Relevant identified uses of the substance or mixture and uses advised against
: FOR INDUSTRIAL USE ONLY

Supplier/Manufacturer : Akzo Nobel Coatings, Inc.
1 East Water Street
Waukegan, IL 60085
USA
Tel. 1 847 623 4200
Email: customer.
service@akzonobel.com

Canadian Supplier : Akzo Nobel Coatings Ltd.
110 Woodbine Downs Blvd.
Unit #4 Etobicoke, Ontario
Canada M9W 5S6
+1 (800) 618-1010

Emergency telephone number : CHEMTREC +1 (800) 424-9300 (Inside the US)
CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

Date of issue / Date of revision : 27 July 2021

Safety Data Sheet Version : 10.27

Date of printing : 27 July 2021

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

Section 2. Hazards identification

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

Classification of the substance or mixture : ACUTE TOXICITY (inhalation) - Category 4
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Section 2. Hazards identification

GHS label elements

Hazard pictograms :



Signal word

: Warning

Hazard statements

: Harmful if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary statements

Prevention

: Wear protective gloves. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

Storage

: Store locked up.

Disposal

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

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
Hexamethylene diisocyanate, oligomers	95 - 100	28182-81-2

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 or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of

Section 4. First aid measures

- inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Harmful if inhaled. May cause respiratory irritation.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

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

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Hexamethylene diisocyanate, oligomers	None.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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.

Section 8. Exposure controls/personal protection

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** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Colorless.
Odor	: Mild.
Odor threshold	: Not available.
pH	: Not available.
Melting/freezing point	: Not available.
Boiling point	: 45°C (113°F)
boiling range	: Not available.
Flash point	: Closed cup: 166°C (330.8°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	
Upper:	: Not determined.
Lower:	: Not determined.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.16
Density	: 9.68 lbs/gal 1.16 g/cm ³
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

Section 9. Physical and chemical properties

Viscosity	: Kinematic (room temperature): 4.74 cm ² /s (474 cSt)			
Weight Volatiles	: 0% (w/w)			
Volume Volatiles	: 0.00	% (v/v)		
Weight Solids	: 100.00	% (w/w)		
Volume Solids	: 100	% (v/v)		
Regulatory VOC	: 0.0	lbs/gal	0	g/l minus water and exempt solvents
VOC Actual	: 0.0	lbs/gal	0	g/l

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers	LC50 Inhalation	Rat	18500 mg/m ³	1 hours

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hexamethylene diisocyanate, oligomers	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Section 11. Toxicological information

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : Harmful if inhaled. May cause respiratory irritation.
Skin contact : May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

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

Section 11. Toxicological information

Not available.

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (vapors)	11.01 mg/l

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Hexamethylene diisocyanate, oligomers	5.54	367.7	low

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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a

Section 13. Disposal considerations

safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Special precautions for user : Please Note: The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

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.

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

Section 15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 311/312

Classification : Immediate (acute) health hazard

California Prop. 65

Based on available information, no listed components are known to be present.

International lists

National inventory

Australia : All components are listed or exempted.

Section 15. Regulatory information

Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : At least one component is not listed.
Malaysia	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Turkey	: All components are listed or exempted.

Section 16. Other information

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

Health	*	3
Flammability		1
Physical hazards		0

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



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History

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Section 16. Other information

MSDS # : 007899 0007 0022A8FC60

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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

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