

# 2020 CLS Quicksheet

## SMBSC CLS Fungicide Principles

- Start with an EBDC alone (application zero) when the leaves between rows are 3 inches apart.
- Always use two effective modes of action in every application after application zero.
- Alternate chemistries and alternate triazole products used during the season.
- Use a spray volume of 20 to 25 gpa (5 to 7 gpa for aerial applications).
- Make fungicide applications on a 10 to 12 day interval, unless environmental conditions dictate otherwise.
  - CLS DIV's will begin posting in June when CLS may become active: [https://www.smbosc.com/Agronomy/CLS\\_DIVvalues.aspx](https://www.smbosc.com/Agronomy/CLS_DIVvalues.aspx)
- Utilize nozzle selection, pressure, and adjuvants to achieve optimal coverage.
  - Optimal droplet size for coverage will depend on wind conditions.
- Strobilurins, benzimidazoles (Topsin), and SDHI products are not considered effective tank mix partners.
- Do not tank mix fungicides and glyphosate.
- Consult labels before tank-mixing fungicides with other crop protection products.
- Always follow the label for application instructions and restrictions.

## Variety Ratings

Variety	Rating
Crystal M821	3.8
SES-V 862	3.8
SES-V 863	3.8
SES-V 881	3.8
Crystal M837	3.9
Hilleshog 2219	4.0
Beta 9780	4.1
Beta 9810	4.1
Crystal M509	4.1
Hilleshog 9739	4.1
Beta 9475	4.2
SES-V 883	4.2
Crystal M623	4.4
Crystal M579	4.5
Crystal 018	4.7

\* Lower ratings are more tolerant, higher ratings are more susceptible.

## Example Program

0. EBDC Alone
1. Tin + EBDC
2. Triazole + EBDC
3. Tin + Copper
4. Triazole + EBDC
5. Tin + EBDC
6. Triazole + Copper

\*Small plot research and field observations show that application zero provides significantly better control than fungicide spray programs that started later.

## CLS Fungicide Product Options

Triazole/DMI Products	Rate/Acre	REI	PHI
Eminent VP or Minerva	13oz	12hrs	14 days
Provysol	5oz	12hrs	21 days
Inspire XT	7oz	12hrs	21 days
Proline 480 SC	5.7oz	12hrs	7 days
Enable 2F	8oz	12hrs	14 days
Topguard	14oz	12hrs	21 days

\*These fungicide products have restrictions on the amount of product available for use during a season. However, it is the recommendation of SMBSC that each product is only used once during the season regardless of what is allowed via the label.

## CLS Fungicide Product Options Cont.

Tin Products	Rate/Acre	REI	PHI	Copper Products	Rate/Acre	REI	PHI
Super Tin 4L	8 oz	48hrs	7 days	Badge SC	2 pts	48hrs	0 day
Super Tin 80WP	5 oz	48hrs	7 days	Badge X2	2 lbs	48hrs	0 day
				Champion	1.25 lbs	48hrs	0 day
Agri Tin	5 oz	48hrs	7 days	Champ 2 Flowable	2 pts	48hrs	0 day
				Cuprofix Ultra	2 lbs	48hrs	0 day
Agri Tin Flowable	8 oz	48hrs	7 days	Kocide 3000	1.25 lbs	48hrs	0 day
*Do not exceed 15 oz/A of Super Tin/Agri Tin 80 WP or 24 oz/A of Super Tin/Agri Tin 4L per season.				*There may be other copper products available for use in sugar beets. Follow label instructions. *Do not apply glyphosate within 7 to 10 days of a copper product as this may cause phytotoxicity.			

EBDC Products	Rate/Acre	REI	PHI	Premixed Products	Rate	REI	PHI
Manzate Max	1.6 qts	24hrs	14 days	Propulse (Proline+SDHI)	13.6 oz	12hrs	7 days
Manzate Pro-Stick	2 lbs	24hrs	14 days	Brixen (Minerva+Azoxyastrobin)	21 oz	12hrs	14 days
Dithane M45	2 lbs	24hrs	14 days				
Dithane F-45	1.6 qts	24hrs	14 days	Acropolis (Minerva+T-Methyl)	32 oz	24hrs	21 days
Koverall	2 lbs	24hrs	14 days	Lucento (Topguard+ SDHI)	5.5 oz	12hrs	21 days
Penncozeb 80WP	2 lbs	24hrs	14 days	Minerva Duo (Minerva+Tin)	16 oz	48hrs	14 days
Penncozeb 75DF	2 lbs	24hrs	14 days				
*There may be other EBDC products available for use in sugar beets. Follow label instructions.				*Be aware of premixed fungicide products as they may not contain two effective modes of action ( <u>most do not</u> ).			

The information contained in this quicksheet is meant to provide options for a CLS fungicide program for your operation in 2020. However, it can not provide all the details for every application. **Consult your agriculturalist and the product label.**



Updated May 22<sup>nd</sup>, 2020

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